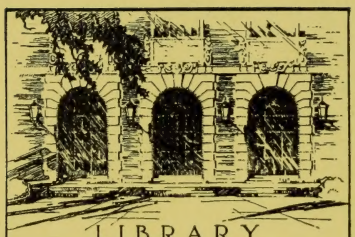

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BULLETIN OF THE UNIVERSITY OF OKLAHOMA

NEW SERIES NO. 70 SEPTEMBER 1913

THE UNIVERSITY OF OKLAHOMA

QUARTERLY BULLETIN

GENERAL CATALOGUE
1912-1913

ANNOUNCEMENTS FOR 1913-1914

SECOND EDITION

NORMAN, OKLAHOMA
SEPTEMBER, 1913.

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The University of Oklahoma

QUARTERLY BULLETIN

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OF THE
UNIVERSITY OF ILLINOIS

GENERAL CATALOGUE

PUBLISHED QUARTERLY BY THE UNIVERSITY
NORMAN, OKLAHOMA.

1912

SEPTEMBER

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1913

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DECEMBER

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1914

JANUARY

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MARCH

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JULY

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1912/13-1915/16

1912-13	THE UNIVERSITY YEAR	1913-14
1912		1913
Sept. 24, 25	Entrance examinations. Registration.	Sept. 23, 24
Sept. 26	Class work begins, 8:00 a. m.	Sept. 25
Oct. 1	President's Annual Address, 10:00 a. m.	Sept. 30
	President's reception to Students and Faculty	Oct. 3
Nov. 5	General Election.	——
Nov. 27	Thanksgiving recess begins, 12:15 p. m.	Nov. 26
Dec. 2	Class work resumed, 8:00 a. m.	Dec. 1
Dec. 20	Christmas recess begins, 5:30 p. m.	Dec. 19
1913		1914
Jan. 6	Class work resumed, 8:00 a. m.	Jan. 5
Feb. 3	Mid-year examinations begin.	Feb. 2
Feb. 7	Annual Faculty Concert, School of Fine Arts, 8:00 p. m.	Feb. 6
Feb. 7, 8	Entrance examinations. Registration, second semester.	Feb. 6, 7
Feb. 10	Class work begins, 8:00 a. m.	Feb. 9
	President's reception to Students and Faculty	Feb. 20
Feb. 22	Washington's Birthday.	Feb. 22
Mar. 20	Easter recess begins, 5:30 p. m.	Apr. 9
Mar. 25	Class work resumed, 8:00 a. m.	Apr. 14
Apr. 26	Interscholastic Track and Field Meet.	Apr. 25
May 5	Final date for submitting finished theses.	May 4
May 30	Memorial Day.	May 30
June 5	Final examinations begin.	June 4
June 8	Baccalaureate Sunday.	June 7
June 9	Commencement recital, 8:30 p. m.	June 8
June 10	Senior class play, 8:30 p. m.	June 9
June 11	Commencement concert, 8:30 p. m.	June 10
June 12	Commencement exercises, 10:30 a. m. Alumni luncheon, 1:00 p. m.	June 11
June 13, 14	Entrance examinations. Registration, summer session.	June 12, 13
June 16	Class work begins, 7:15 a. m.	June 15
July 4	Independence Day.	July 4
Aug. 8	Close of summer session. August convocation, 8:00 p. m.	Aug. 7

NOTE.—The university opens regularly on the fourth Thursday of September and closes on the second Thursday of June.

MEMBERS OF THE STATE BOARD OF EDUCATION

MEMBER EX OFFICIO

Robert H. Wilson . . . . . Chickasha
State Superintendent of Public Instruction

TERMS EXPIRE 1913

M. H. Duncan . . . . . Pauls Valley
B. H. Hester . . . . . Claremore

TERMS EXPIRE 1915

Henry C. Potterf . . . . . Ardmore
A. W. Duff . . . . . Mangum

TERMS EXPIRE 1917

Francis B. Fite, M. D. . . . . Muskogee
Frank J. Wikoff . . . . . Oklahoma City

OFFICERS OF THE BOARD

Robert H. Wilson, President . . . Oklahoma City
Leslie T. Huffman, Secretary . . . Oklahoma City

OFFICERS OF ADMINISTRATION AND INSTRUCTION, 1913-14

President, Vice-President, and Deans

STRATTON DULUTH BROOKS, A. B., Michigan, 1896; A. M., Harvard, 1904; LL. D., Colby, 1912.
President of the University, (1912).

*EDWIN DEBARR, B. S., Michigan Agricultural College, 1891; M. S., 1893; Ph. B., Michigan, 1892; Ph. D., 1899.
Vice-President of the University, Director of the School of Chemical Engineering, Professor of Chemistry, (1892), 1911.

JAMES SHANNON BUCHANAN, B. S., Cumberland University, 1885.
Dean of the College of Arts and Sciences, Professor of History, (1895), 1909.

ALBERT HEALD VAN VLEET, B. S., Wisconsin, 1895; M. A., Ph. D., Leipzig, 1897.
Dean of the Graduate School, Professor of Biology, 1898, (1899), 1909.

JAMES HUSTON FELGAR, A. B., Kansas, 1901; B. S., Armour Institute of Technology, 1905; M. E., 1911.
Dean of the College of Engineering, Professor of Mechanical Engineering, 1906, (1907), 1909.

FREDRIK HOLMBERG, B. M., Bethany College, Lindsborg, Kan., 1899.
Dean of the School of Fine Arts, Professor of Music, 1903, (1907), 1913.

JULIEN CHARLES MONNET, A. B., Iowa, 1892; LL. B., 1893; A. M., 1905; LL. B., Harvard, 1908.
Dean of the School of Law, Professor of Law, (1909).

NOTE:—Members in each group are printed in the order of appointment to that group. The first date following the title is the date of first appointment to the university; the date in parentheses is the year of appointment to the present rank (professors and associate professors are ranked together); the last date is the year of appointment to the present position.

All addresses are at Norman unless otherwise specified.

*On leave of absence.

CHARLES HOWARD STOCKING, Ph. C., Michigan, 1907; B. S., Michigan, 1909.
Dean of the School of Pharmacy, Professor of Pharmacy, (1912).

Professors and Associate Professors

JOSEPH FRANCIS PAXTON, A. B., Missouri, 1891; A. M., Harvard, 1895.
Professor of Greek and Classical Archaeology, (1896), 1906.

ROY GITTINGER, B. A., Oklahoma, 1902; A. M., Chicago, 1906.
Professor of English History, 1902, (1905), 1910.

JAMES WELLINGS STURGIS, A. B., Michigan, 1896; A. M., 1897; Ph. D., 1910.
Professor of Latin, 1900, (1905).

SAMUEL WATSON REAVES, B. S., South Carolina Military Academy, 1895; B. S., North Carolina, 1899; A. B., Cornell, 1900; A. M., Chicago, 1912.
Professor of Mathematics, (1905).

SARDIS ROY HADSELL, B. A., Oklahoma, 1904; A. M., Harvard, 1907.
Professor of the English Language, 1904, (1907), 1910.

GUY YANDALL WILLIAMS, B. A., Oklahoma, 1906; M. A., 1910; M. S., Chicago, 1911; Ph. D., Illinois, 1913.
Associate Professor of Chemistry, 1906, (1908).

HENRY HIGGINS LANE, Ph. B., DePauw, 1899; M. A., Indiana, 1903.
Professor of Zoology, 1906, (1908).

JEROME DOWD, B. A., Trinity College, North Carolina, 1882; M. A., 1896.
Director of the School of Commerce and Industry, Professor of Sociology and Economics, 1907, (1908), 1913.

THEODORE HAMPTON BREWER, B. A., Vanderbilt, 1896; M. A., 1907.
Director of the School of Journalism, Professor of English Literature, (1908), 1913.

LUCILE DORA, A. B., Christian College, 1898; M. A., Hellmuth College, London, Ontario, 1901.
Professor of the Romance Languages and Literatures, (1908), 1910.

WALTER LEANDER CAPSHAW, M. D., St. Louis University, 1907.
Professor of Anatomy, (1908).

LOUIS ALVIN TURLEY, B. S., Idaho, 1903; A. M., Harvard, 1906.
Professor of Histology and Pathology, (1908), 1912.

MONROE ALLEN FLOYD, B. S. D., State Normal School, Warrensburg, Missouri, 1895; B. S., A. B., Missouri, 1905.
Associate Professor of History, (1908).

DANIEL WEBSTER OHERN, A. B., Drake University, 1898; A. M., West Virginia, 1899; Ph. D., Johns Hopkins, 1907.
Director, Oklahoma Geological Survey, Special Lecturer on Oklahoma Geology, with rank of Professor, (1908), 1912.

JOHN CHESTER DARLING, B. A., Oklahoma, 1906; M. S., 1908; M. D., Northwestern, 1912.
Physical Director, with rank of Associate Professor, (1908).

HAROLD VEATCH BOZELL, B. S., Kansas, 1908.
Director of the School of Electrical Engineering, Professor of Electrical Engineering, 1908, (1909), 1911.

JOHN HENRY VOSS, A. B., Nebraska, 1902; M. A., Oklahoma, 1911.
Associate Professor of German, 1908, (1909).

HERBERT BANCROFT DWIGHT, B. S., Colorado, 1904.
Professor of Mechanics, 1908, (1909), 1911.

CHARLES HENRY TAYLOR, B. S., Chicago, 1907; M. S., 1909.
Director of the School of Mining Geology, Professor of Geology, (1909), 1912.

WILLIAM PETER HASEMAN, A. B., Indiana, 1903; A. M., 1904; Ph. D., Pennsylvania, 1907.
Professor of Physics, (1909).

ERRETT RAINS NEWBY, B. M., Oklahoma, 1907; B. A., 1908.
Secretary, Registrar, with rank of Professor, 1908, (1909), 1911.

ARCHA KELLY WEST, M. D., Memphis Hospital Medical College, 1894.
Professor of Medicine, (1910), 1911.
306 Majestic Building, Oklahoma City.

*WILLIAM JAMES JOLLY, M. D., Medical College of South Carolina, 1882.
Professor of Surgery, (1910), 1912.
225 Lee Building, Oklahoma City.

ROBERT MAYBURN HOWARD, M. D., Michigan, 1901.
Associate Professor of Surgery, (1910), 1913.
603 Security Building, Oklahoma City.

EDMUND SHEPPARD FERGUSON, M. D., Detroit College of Medicine, 1895.
Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff, (1910), 1911.
612 State Bank Building, Oklahoma City.

*Acting Dean of the School of Medicine.

John William Riley, M. D., University of Buffalo, 1901.
Associate Professor of Surgery, (1910), 1913.
119 W. Fifth Street, Oklahoma City.

Horace Reed, M. D., Missouri, 1901.
Associate Professor of Surgery, (1910), 1913.
622-23 State Bank Building, Oklahoma City.

Stephen Melvil Barrett, B. S., Drury, 1904; A. M., 1909.
Professor of Education, (1910), 1913.

Henry Hubbard Foster, A. B., Cornell, 1899; LL. B., Harvard, 1908.
Professor of Law, (1910).

John Begg Cheadle, A. B., Kansas, 1898; LL. B., 1902.
Professor of Law, 1909, (1911).

Victor Henry Kulp, Ph. B., Chicago, 1905; J. D., 1908.
Professor of Law, (1911).

John Alley, A. B., Kingfisher College, 1902; A. B., Harvard, 1908.
Professor of Political Science, (1911).

Roy Temple House, A. B., Miami, 1900; A. M., 1903.
Professor of the Germanic Languages and Literatures, (1911).

Frederick Charles Kent, B. S., Michigan, 1894.
Associate Professor of Mathematics, (1911).

John Archer Hatchett, M. D., Missouri Medical College, St. Louis, 1884.
Professor of Obstetrics and Gynecology, (1911), 1913.
El Reno, Oklahoma.

James Irwin Tucker, B. S., Tufts, 1901; LL. B., Boston Evening Law School, 1909.
Director of the School of Civil Engineering, Professor of Civil Engineering, (1911), 1913.

Irving Perrine, A. B., Cornell, 1907; A. M., 1911; Ph. D., 1912.
Professor of Stratigraphic Geology and Paleontology, (1912).

Abraham Lincoln Blesh, M. D., Northwestern, 1889.
Associate Professor of Surgery, (1912), 1913.
606-10 State Bank Building, Oklahoma City.

Lauren Haynes Buxton, M. D., Vermont, 1884; LL. D., Central University, Pella, Iowa, 1907.
Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff, (1912).
Indiana Building, Oklahoma City.

GAYFREE ELLISON, B. S., Bethany College, 1898; M. D., Rush Medical College, 1903.
Professor of Bacteriology, 1910, (1912).

ANDREW CLARKSON PARSONS, A. B., Nebraska, 1903.
Professor of Secondary Education, High School Inspector, (1912).

WARREN WAVERLEY PHELAN, A. B., Columbia, 1894; A. M., 1896; Ph. D., George Washington University, 1905.
Director of the School of Education, Professor of Psychology and Education, (1912), 1913.

WARREN ABNER SEAVEY, A. B., Harvard, 1902; LL. B., 1904.
Professor of Law, (1912).

EDWARD FRANCIS DAVIS, M. D., Miami Medical College, University of Cincinnati, 1902.
Associate Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff, 1911, (1913).
616-17 Colcord Building, Oklahoma City.

CURTIS RICHARD DAY, M. D., St. Louis University, 1891; Ph. G., Ohio Institute of Pharmacy, 1906.
Associate Professor on Genito-Urinary, Venereal, and Skin Diseases, 1910, (1913).
608-10 Security Building, Oklahoma City.

EVA ELLSWORTH DUNGAN, Graduate in Piano, Cornell College, Iowa.
Associate Professor of Piano and Public School Music, 1911,(1913).

CHARLES FRANCOIS GIARD, Graduate New England Conservatory of Music, 1905.
Associate Professor of Piano and Theory of Music, 1912, (1913).

JOHN SMITH HARTFORD, M. D., Kansas City Medical College, 1901.
Associate Professor of Gynecology, Chief of Dispensary Staff, and Attending Gynecologist, 1910, (1913).
603 Security Building, Oklahoma City.

GEORGE ALTHOUSE LAMOTTE, B. L., Missouri Valley College, Marshall, Mo., 1897; M. D., Jefferson Medical College, Philadelphia, 1901.
Associate Professor of Medicine, 1910, (1913).
518 Colcord Building, Oklahoma City.

GEORGE SEYMOUR LENOX.
Associate Professor of Voice, 1909, (1913).

LEWIS JEFFERSON MOORMAN, B. S., Georgetown College, Kentucky, 1898; M. D., Hospital College of Medicine (Central University), Louisville, Kentucky, 1901.
Associate Professor of Medicine, 1910, (1913).
622-23 State Bank Building, Oklahoma City.

MERLE EDELWEISS NEWBY, B. M., Oklahoma, 1906; B. A., 1912.
Associate Professor of Violin, 1906, (1913).

LEONARD BLAINE NICE, Ph. B., Ohio, 1908; Ph. D., Clark, 1911.
Professor of Physiology, (1913).

LEA ARMISTEAD RIELY, A. B., Hanover College, Indiana, 1895; M. D., University of Louisville, 1898; A. M., Hanover College, 1901.
Associate Professor of Medicine, 1910, (1913).
335 American Bank Building, Oklahoma City.

ANGELO C. SCOTT, A. B., Kansas, 1877; A. M., 1880; LL. B., LL. M., Columbia, 1885.
Director of Extension Lectures, University Extension, with rank of Professor, (1913).

JOSEPH WHITEFIELD SCROGGS, A. B., Lafayette, 1875; D. D., Washburn, 1902; A. M., Lafayette, 1910.
Director of the Department of Public Information and Welfare, University Extension, with rank of Professor, (1913).

HARRY COULTER TODD, B. A., Acadia College, Canada, 1897; M. D., Bowdoin, 1900; M. A., Acadia College, Canada, 1907.
Associate Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff, 1912, (1913).
Indiana Building, Oklahoma City.

ANTONIO DEBORD YOUNG, M. D., Barnes Medical College, St. Louis, 1895.
Associate Professor of Nervous and Mental Diseases, 1910, (1913).
634 Security Building, Oklahoma City.

Assistant Professors

JESSE LEE RADER, B. A., Oklahoma, 1908.
Librarian, with rank of Assistant Professor, 1908, (1909).

LLOYD BURGESS CURTIS, B. S., Oklahoma, 1908; B. S., in Electrical Engineering, 1910.
Assistant Professor of Spanish, Band Instructor, 1908, (1911).

*ROBERT PEYTON CALVERT, B. A., Oklahoma, 1909; M. A., 1910; M. S., Chicago, 1911.
Assistant Professor of Chemistry, (1911).

LOUISA BROOKE, B. A., Vassar, 1907.
Assistant Professor of English, Adviser of Women, 1909, (1911), 1912.

HOWARD STORM BROWNE, B. A., Oklahoma, 1911; Ph. C., 1912; M. S., 1913.
Assistant Professor of Pharmacy, 1911, (1912).

*On leave of absence.

ARTHUR BARTO ADAMS, A. B., South Carolina, 1910; M. A., Columbia, 1912.
Assistant Professor of Economics, (1913).

WILLIAM AITKENHEAD, B. S., Purdue, 1902; M. A., Oklahoma, 1913.
Assistant Professor of Mechanical Engineering, 1909, (1913).

WILLIAM RICHARD BEVAN, M. D., St. Louis University, 1906.
Assistant Professor of Obstetrics, 1910, (1913).
513-15 State Bank Building, Oklahoma City.

SAMUEL ROBERT CUNNINGHAM, M. D., Medical College of Indiana, Indianapolis, 1899.
Assistant Professor of Gynecology, Attending Gynecologist, Dispensary Staff, 1910, (1913).
306 Majestic Building, Oklahoma City.

RICHARD LELAND FOSTER, A. B., Hartford College, 1891; A. M., 1897; M. D., Hospital Medical College, Louisville, Kentucky, 1900.
Assistant Professor of Medicine, 1912, (1913).
303 American Bank Building, Oklahoma City.

PATRICIO GIMENO, B. A., Academy of Art, Valencia, Spain, 1883.
Assistant Professor of Art, Instructor in Italian, 1911, (1913).

CHARLES EARNEST HAMNER, M. D., Tulane University, 1911.
Assistant Professor of Bacteriology, (1913).

ROBERT LORD HULL, A. B., Bowdoin, 1897; M. D., Jefferson Medical College, Philadelphia, 1902.
Assistant Professor of Orthopedic Surgery, 1911, (1913).
432-34 American Bank Building, Oklahoma City.

JOHN FREDERICK KUHN, Ph. G., Illinois, 1893; M. D., Georgetown University, 1901.
Assistant Professor of Surgery, 1912, (1913).
619-20 State Bank Building, Oklahoma City.

EVERETT SAMUEL LAIN, M. D., Vanderbilt, 1900.
Assistant Professor of Electro-Therapy and Radiography, 1912, (1913).
707 State Bank Building, Oklahoma City.

ROBERT ELMORE LOONEY, M. D., University of Nashville, 1902.
Assistant Professor of Obstetrics, 1910, (1913).
612 American Bank Building, Oklahoma City.

JOSEPH THOMAS MARTIN, A. B., St. Marys College, Kansas, 1903; A. M., 1906; M. D., St. Louis University, 1907.
Assistant Professor of Children's Diseases, Attending Pediatrist, Dispensary Staff, 1911, (1913).
318 E. Fourth Street, Oklahoma City.

JOSEPH FIFE MESSENBAUGH, M. D., Missouri Medical College, St. Louis, 1898.
Assistant Professor of Children's Diseases, 1910, (1913).
519 Colcord Building, Oklahoma City.

LESTER WILLIAM WALLACE MORROW, M. E., Cornell, 1911.
Assistant Professor of Electrical Engineering, (1913.)

EDGAR ELMER RICE, A. B., American Normal College, Logansport, Ind., 1891; M. D., Hospital College of Medicine (Now University of Louisville), Louisville, Ky., 1896.
Assistant Professor of Gynecology, 1911, (1913).
Shawnee, Oklahoma.

MILLINGTON SMITH, M. D., Missouri Medical College, St. Louis, 1881.
Assistant Professor of Surgery, 1910, (1913).
319 Colcord Building, Oklahoma City.

RALPH VERNON SMITH, M. D., Washington University, St. Louis, 1898.
Assistant Professor of Surgery, 1911, (1913).
Guthrie, Oklahoma.

FRANK BRUNER SORGATZ, M. D., Northwestern, 1907.
Assistant Professor of Medicine, Attending Physician, Dispensary Staff, 1911, (1913).
419 Insurance Building, Oklahoma City.

BURTON FRANK TANNER, B. L., Dakota Wesleyan University, 1908; Graduate, Cumnock School of Oratory, Northwestern University, 1912.
Assistant Professor of Public Speaking, 1912, (1913).

WILLIAM MERRITT TAYLOR, B. S., Kentucky Wesleyan College, Winchester, Ky., 1894; M. D., University and Bellevue Hospital Medical College, New York City, 1898.
Assistant Professor of Children's Diseases, 1911, (1913).
509-12 State Bank Building, Oklahoma City.

CURT OTTO VON WEDEL, JR., M. D., University and Bellevue Hospital Medical College, New York, 1907.
Assistant Professor of Surgery, Attending Surgeon, Dispensary Staff, 1912, (1913).
720 N. Robinson, Oklahoma City.

LEIGH FESTUS WATSON, Ph. G., Virginia School of Pharmacy, 1902; M. D., Medical College of Virginia, 1906.
Assistant Professor of Surgery, 1911, (1913).
611 Colcord Building, Oklahoma City.

ARTHUR WEAVER WHITE, B. A., Monmouth College, 1898; M. D., Rush Medical College, 1902; A. M., Monmouth College, 1908.
Assistant Professor of Medicine, 1912, (1913).
400 Colcord Building, Oklahoma City.

ARTHUR ANDERSON WILL, M. D., Albany Medical College, 1900.
Assistant Professor of Rectal Surgery, 1912, (1913).
400 Colcord Building, Oklahoma City.

Instructors

BENJAMIN GILBERT OWEN.
Assistant Director of Physical Training and Coach, with rank of Instructor, 1905, (1908).

JOHN MOSBY ALFORD, M. D., Tulane, 1895.
Anaesthetist, University Hospital, with rank of Instructor, (1911), 1913.
504 Colcord Building, Oklahoma City.

ANNETTE BOURBON COWLES, R. N.
Superintendent of the Hospital, with rank of Instructor, (1911).
325 E. Fourth Street, Oklahoma City.

LEWIS SPENCER SALTER, B. M., Oklahoma, 1912.
Instructor in Piano and Theory of Music, (1911), 1913.

FLOYD JACKSON BOLEND, Ph. C., University of Oklahoma, 1901; M. D., College of Physicians and Surgeons, St. Louis, 1906.
Attending Pediatrist, Dispensary Staff, with rank of Instructor, (1912).
304-5-6-7 Security Building, Oklahoma City.

REX GEORGE BOLEND, B. S., University of Illinois, 1909; M. D., University of St. Louis, 1911.
Attending Physician, Dispensary Staff, with rank of Instructor, (1912), 1913.
611 Security Building, Oklahoma City.

THOMAS CRAIG BURNS, M. D., Union College, Albany, New York, 1908.
Instructor in Nervous Diseases, Attending Physician, Dispensary Staff, (1912), 1913.
Security Building, Oklahoma City.

CHARLES DUNCAN FERGUSON, M. B., University of Toronto, Canada, 1901.
Attending Physician, Department of Eye, Ear, Nose and Throat Diseases, Dispensary Staff, with rank of Instructor, (1912).
612 State Bank Building, Oklahoma City.

WILLIAM ALONZO FOWLER, L. I., Peabody College for Teachers, Nashville, Tennessee, 1905; M. D., University of Nashville, 1908.
Attending Physician, Department of Obstetrics, Dispensary Staff, Director of the Out-Patient Department, with rank of Instructor, (1912), 1913.
225 Lee Building, Oklahoma City.

ANDREW MERRIMAN YOUNG, M. D., Vanderbilt, 1909.
Attending Physician, Dispensary Staff, with rank of Instructor, (1912).
319 Colcord Building, Oklahoma City.

MARTHA EGGLESTON ZIMMERMAN, R. N.
Assistant Superintendent of the Hospital, with rank of Instructor, (1912).
325 E. Fourth Street, Oklahoma City.

LAURENCE NELSON MORGAN, B. A., North Carolina, 1912.
Instructor in English, (1912).

EARLE SELLERS PORTER, B. A., Oklahoma, 1911; M. A., 1912.
Instructor in Chemistry, 1909, (1912).

AGNES MARY BERRIGAN, B. A., M. A., Oklahoma, 1913.
Assistant in Department of University Extension, with rank of Instructor, (1913).

CYRIL EBERT CLYMER, M. D., St. Louis, 1910.
Attending Surgeon, Dispensary Staff, with rank of Instructor, (1913).

CASRIEL J. FISHMAN, PH. C., Michigan, 1902; B. S., 1906; M. D., Rush Medical College, Chicago, 1908.
Instructor in Clinical Microscopy, 1911, (1913).
325 E. Fourth Street, Oklahoma City.

NELLIE MAY MCGINLEY, Graduate, Art Department Ursuline Academy, Cleveland, Ohio, 1911.
Instructor in China Painting, (1913).

KENNETH POTTER MONROE, B. S., Chicago, 1913.
Instructor in Chemistry, (1913).

RACHEL REVELL, Ph. B., Iowa State College, Grinnell, Iowa, 1904; Graduate of Sargent's School for Physical Education, Cambridge, Massachusetts, 1907.
Instructor in Physical Training, (1913).

George Frederick William Schmidt, B. M., Oklahoma, 1912.
Instructor in Voice, (1913).

Joseph Bradfield Thoburn, B. S., Kansas Agricultural College, 1893.
Instructor in History, (1913).

Frank Lloyd Weaver, B. C. E., Michigan, 1913.
Instructor in Civil Engineering, (1913).

Chester Wells, A. B., Wisconsin, 1913.
Instructor in English and Journalism, (1913).

Special Lecturers and Special Directors

Jesse James Dunn, LL. B.
Justice of the Supreme Court, Lecturer on Legal Remedies, (1909).
Lawrence Building, Oklahoma City.

Robert Lee Williams, A. M., LL., D.
Justice of the Supreme Court, Lecturer on the Oklahoma Constitution, (1909).
Lawrence Building, Oklahoma City.

Samuel W. Hayes.
Chief Justice of the Supreme Court, Lecturer on Legal Ethics, (1909).
Lawrence Building, Oklahoma City.

Henry Marshall Furman.
Justice of the Criminal Court of Appeals, Lecturer on Criminal Jurisprudence, (1909).
Lawrence Building, Oklahoma City.

Charles B. Ames, A. B., LL B.
Ex-Supreme Court Commissioner, Lecturer in School of Law,(1909).
Oklahoma City.

Malcolm E. Rosser, LL. B.
Supreme Court Commissioner, Lecturer in School of Law, (1909).
Lawrence Building, Oklahoma City.

William Robinson Molinard, E. E., Johns Hopkins, 1893.
Lecturer on Electrical Engineering, (1913).
Insurance Building, Oklahoma City.

Stuart A. Courtis.
Consulting Director of the Department of Measurement, Efficiency, and Standardization, School of Education, (1913).
82 Eliot Street, Detroit, Michigan.

Fellowships and Scholarships

RANSEL EUGENE ANDREW, A. B., Oklahoma, 1913.
Fellowship in Chemistry, (1913).

DAVID ELLERY RENSHAW.
Fellowship in Electrical Engineering, (1913).

Fellowship in Education, (1913).

EDGAR WAYNE FIELDING.
Scholarship in Chemistry, (1913).

ADDIE MALOY.
Scholarship in Physics, (1913).

DAVID HOGAN MARKHAM.
Scholarship in Chemistry, (1913).

CLARENCE VANBUREN NICHOLS.
Scholarship in Pharmacy, (1913).

HERBERT VICTOR LOUIS SAPPER.
Scholarship in Pathology, (1913).

LUTHER HERMAN WHITE.
Scholarship in Geology, (1913).

Business Officers and Assistants

MORRIS MYERS, B. A., Oklahoma, 1911; M. A., 1912.
Analyst, Pure Food Laboratory, (1911).

THOMAS BELL WINNINGHAM.
Clerk, Medical School, Oklahoma City, (1911).
317 E. Fourth Street, Oklahoma City.

JOSIAH LAWRENCE LINDSEY.
Financial Clerk, (1912).

GRADY KIRBY.
Assistant Registrar, (1913).

EDWARD KITCHELL WITCHER, B. A., Illinois, 1912.
Secretary, Student Employment Bureau, (1913).

STANDING COMMITTEES

Council: The president, the vice-president, and the deans.

Admission: Professors Gittinger, Dwight, Holmberg, Cheadle, Turley, Parsons, Lane.

Assembly Committee: Professors Monnet, Holmberg, Sturgis.

Athletics: Professors Felgar, Alley, Bozell.

Committee of Audit: Professors Haseman, VanVleet, Perrine.

Eligibility in Athletics: Professors Haseman, Floyd, Cheadle.

Hygiene and Sanitation: Professors Felgar, Ellison, Darling.

Library: Professors Rader, Paxton, Dowd.

Lyceum Council: Professors Holmberg, Dowd, Kulp.

Non-Athletic Organizations: Professors House, Dora, Sturgis, Voss, Kent.

Oratory and Debate: Professors Tanner, Foster, Dowd.

Program: Professors Reaves, Bozell, Turley.

Recommendations: Professors Phelan, Hadsell, Lane.

Bulletin of University Studies: Professors Reaves, Brewer, Haseman, Tucker, Barrett, Perrine.

University Publications: Professors Hadsell, Brewer, Newby.

ENROLLING COMMITTEES

For the Graduate School: Professor Van Vleet and the student's major professor.

For the College of Arts and Sciences: (a) Major students: the major professor. (b) All other students: Professors Buchanan, Hadsell, Lane, Haseman, Taylor.

For the School of Commerce and Industry: Professor Dowd and the student's major professor.

For the School of Education: Professor Phelan and the student's major professor.

For the School of Fine Arts: Professors Holmberg, Lenox, Giard.

For the School of Journalism: Professor Brewer and the student's major professor.

For the School of Law: Professors Monnet, Cheadle, Foster.

For the School of Medicine: Professors Capshaw, Turley, Ellison.

For the School of Pharmacy: Professor Stocking.

For the College of Engineering: Professors Felgar, Bozell, Tucker.

OFFICIAL ADVISERS

The chairmen of the several enrolling committees and the major professors are the official advisers, and whenever the approval of an adviser is required by the rules, the chairman of the committee concerned or the major professor must give such approval.

FACULTY AND STUDENT COUNCILS

Athletic Council. Appointed by the President: Faculty—Professors Felgar, Alley, Bozell; Alumni, Newby. Elected by the Athletic Association: Faculty—Professor Lane; Students—Messrs. Claude Reeds, William Clark, Curry Bell, Elmer Capshaw.

Oratorical Council. Appointed by the President: Faculty—Professors Tanner, Foster. Elected by the Oratorical Association: Faculty—Professors Phelan, Monnet; Students—Two from each of the nine literary societies of the university.

GENERAL INFORMATION

GENERAL INFORMATION

THE UNIVERSITY AND THE STATE

The University of Oklahoma is a part of the public educational system of the state. The governing body of the institution is the State Board of Education, consisting of the Superintendent of Public Instruction and six members appointed by the Governor. In accordance with the laws of Oklahoma, the university provides an opportunity to continue the work that is begun in the public schools, and furnishes, without charge for tuition, facilities for academic training and for thorough professional study. The university realizes the necessity of fitting into the public school system of the state; this is shown by its attitude toward the requirements for admission. A graduate of any four-year high school that maintains certain standards, is admitted without examination to freshman standing. In order to take advantage of this plan of admission, high schools are adjusting their work as rapidily as possible to conform to these standards. Provision has been made by the board for visiting schools, and for giving them such suggestions and assistance in the matter of correlation as they desire. A detailed statement of the requirements for the affiiliation, or the recognition, of high schools, as well as of the requirements for the admission of students, may be found under the head of "Admission."

Apart from this close connection with the public schools, it is the purpose of the University of Oklahoma to reach general readers and investigators throughout Oklahoma. It is able to serve the general public chiefly through University Extension, which is described under the proper head. So far as possible, however, all its equipment is made useful to the people of the state at large. The Summer Session has been organized to open the doors of the university to students who are unable to attend during the school year.

Beyond its directly educational work the University of Oklahoma stands as the concrete expression of the intellectual activity of the state, engaged in doing its part in extending the field of knowledge, especially in such directions as may be of the greatest and most obvious benefit to mankind. Thus by the action of the Legislature it is called upon to do such research work in its laboratories in con-

nection with the Pure Food and Health Commissions as will best aid these bodies in protecting the health of our citizens and in carrying on the warfare against disease. Also, by locating the offices of the Geological Survey here, the Legislature manifestly intended to use the facilities of the university for research in such a way as to aid in the development of the mineral resources of the state. These modest beginnings must be accepted as indications of what will become a very large and important work.

ORGANIZATION OF THE UNIVERSITY

Colleges and Schools

The University of Oklahoma comprises the following colleges and schools:

The Graduate School.
The College of Arts and Sciences, including
- The School of Commerce and Industry.
- The School of Education.
- The School of Journalism.

The School of Fine Arts.
The School of Law.
The School of Medicine, including
- The Training School for Nurses.

The School of Pharmacy.
The College of Engineering, including
- The School of Chemical Engineering.
- The School of Civil Engineering.
- The School of Electrical Engineering.
- The School of Mechanical Engineering.
- The School of Mining Geology.

The Graduate School offers advanced work leading to the degree of Master of Arts.

The College of Arts and Sciences offers:

a. Four years' work largely elective, in classical, literary, and scientific studies, leading to the degree of Bachelor of Arts.

b. Four years' work, part of which is given in the School of Medicine, leading to the degree of Bachelor of Science.

The School of Fine Arts offers:

a. Four years' work in theory of music, in piano, in voice, and in violin, leading to the degree of Bachelor of Music.

b. Four years' work in drawing and painting.

c. Courses in violoncello, cornet and other brass instruments, in expression and dramatic art, and in watercolor and china painting.

d. Graduate courses in piano, voice, and violin for those who de-

sire to make public performances and repertoire a specialty. No degree is offered for this work.

e. Preparatory work in piano, in voice, and in violin.

The School of Law offers three years' work leading to the degree of Bachelor of Laws.

The School of Medicine offers four years' work leading to the degree of Doctor of Medicine. The School of Medicine offers also three years' work in the Training School in the University Hospital, leading to a diploma and the title of Graduate Nurse.

The School of Pharmacy offers two years' work leading to the degree of Pharmaceutical Chemist, and four years' work leading to the degree of Bachelor of Science in pharmacy.

The College of Engineering offers four years' work in mechanical, electrical, civil, and chemical engineering, leading to the degree of Bachelor of Science in mechanical, electrical, civil, or chemical engineering; and four years' work leading to the degree of Bachelor of Science in mining geology.

Faculties

Each college or separate school has a special faculty presided over by a dean. The University Senate, a body representing all the faculties, considers questions of common interest and importance. The president, the vice-president, the dean of each college or school, the chairman of each group committee, and the registrar constitute the senate. The general faculty consists of the president, the vice-president, the deans, all professors, associate professors, assistant professors, lecturers, and instructors, and the registrar and librarian.

HISTORY

The University of Oklahoma is founded upon the authority of an act of the legislature of the Territory of Oklahoma, entitled, "An act to locate and establish the University of Oklahoma." The act provided that when ten thousand dollars and forty acres of land should be given to the territory by the City of Norman the school should be located at that place. These requirements having been met, the University of Oklahoma was established at Norman in 1892.

The law states the scope and purpose of the school as follows:

"(6787) Sec. 9. The object of the University of Oklahoma shall be to provide the means of acquiring a thorough knowledge of the various branches of learning connected with scientific, industrial, and professional pursuits, in the instruction and training of persons in the theory and art of teaching, and also the fundamental laws of the United States and this territory in what regards the rights and duties of citizens.

"(6788) Sec. 10. The college department of arts shall embrace courses of instruction in mathematical, physical, and natural sciences

with their applications to the industrial arts, such as agriculture, mechanics, engineering, mining and metallurgy, manufactures, architecture, and commerce, and such branches included in the college of letters as shall be necessary to proper fitness of pupils in the scientific and practical courses of their chosen pursuits, and in military tactics; and in the normal department the proper instruction and learning in the theory and art of teaching in the common schools; and as soon as the income of the university will allow, in such order as the wants of the public shall seem to require, the said courses in the sciences and their application to the practical arts shall be expanded into distinct colleges of arts, and shall embrace a liberal course of instruction in languages, literature, and philosophy, together with such courses or parts of courses in the college of arts as the regents of the university shall prescribe.

"(6789) Sec. 11. The university shall be open to female as well as to male students, under such regulations and restrictions as the board of regents may deem proper, and all able-bodied male students of the university in whatever college may receive instruction and discipline in military tactics, the requisite arms for which shall be furnished by the territory."

The first legislature of the state, in 1907, adopted the territorial law in the provisions quoted above, with such additions and changes in details as seemed necessary at the time.

In the spring of 1893, work was begun on the first building. The institution was organized in the following summer, and in September opened its doors. During the first years it was a university in name only; a very large majority of the students were members of the lower classes of the preparatory school.

Colleges and schools have developed in the following order:—

The College of Arts and Sciences, 1893; the School of Pharmacy, two-year plan, 1893, four-year plan, 1908; Graduate work, 1899, the Graduate School organized separately, 1909; the School of Medicine, first two years' work, 1900, third and fourth years, 1910; the School of Fine Arts, 1903; the School of Applied Science and the School of Mines, 1904, reorganized as the College of Engineering, 1909; the Summer Session, 1908; the School of Law, 1909; and the School of Education, 1909; Training School for Nurses, 1912; School of Commerce and Industry, 1913; School of Journalism. 1913.

The first class was graduated from the School of Pharmacy in 1896; the first degrees were granted by the College of Arts and Sciences in 1898; the first master's degree was granted in 1900; the first degree was granted by the School of Fine Arts in 1905; the first in Engineering, in 1908; the first by the four-year School of Phar-

macy, in 1910; the first by the School of Law, in 1910; the first by the School of Medicine, in 1910; the first nurses diploma, in 1913.

David Ross Boyd was president of the university from 1892 to 1908. Arthur Grant Evans was president of the university from 1908 to 1911. Julien Charles Monnet was acting-president during the school year 1911-12. Stratton Duluth Brooks became president of the university on May 1, 1912.

SUPPORT

The University of Oklahoma is supported from the general revenue of the state and from the income received from lands set aside by Congress out of the public domain as an endowment for the state schools.

The revenue for the period beginning July 1, 1911, and ending June 30, 1913, is derived from the following sources:

House Bill 557, approved by the Governor, for itemized expenditures	$300,000.00
Rentals from Section 13, school land (estimated)	43,463.50

The endowment in land was made by Congress in two grants: Section 13 in each township in what is known as the Cherokee Outlet and in the Kiowa, Comanche, and Wichita reservations, opened for settlement in 1901, was reserved for the university, normal schools, preparatory schools, and agricultural college. The lands so reserved are leased for the benefit of the schools named; the university portion being, at present, about $22,000 a year. In addition to Section 13, the enabling act, approved June 16, 1906, granted to the university 250,000 acres of land to be taken from any public lands within the state, remaining unfiled as homesteads on that date.

The legislature of 1909 provided for the sale of the second class of lands, the proceeds of such sale to be set aside for the university.

The total value of land endowment and the proceeds from the sale of school lands is estimated at $3,670,000. The total income of the university from all sources is at present approximately $175,000 a year.

GROUNDS

The University of Oklahoma occupies a campus of sixty acres. This includes, in addition to the original grounds, twenty acres of land adjoining, given by the people of Norman in 1902. The whole campus, however, comprises seven hundred acres of land, for Congress, in 1907, granted the school section lying a half mile to the westward for university purposes. The foresight of the early administration of the university provided for the planting of an abundance of trees, which have now grown to such proportions as to increase the natural beauty of the location.

On the east side of the campus is the athletic field, known as

Boyd Field. It contains a quarter-mile running track, two gridirons, and two baseball diamonds. Alongside the field is a grandstand with seating capacity for three thousand people. The entire field is enclosed by a permanent hedge.

BUILDINGS

The first building, completed in 1893, was destroyed by fire in January, 1903. Old University Hall, completed in March, 1903, was destroyed by fire in December, 1907. Science Hall, and the Carnegie Library were erected in 1904. The later buildings are planned in accordance with a systematic scheme for landscape and design.

University Hall

University Hall, completed in 1912, is a very handsome structure of stone and brick, in the collegiate Gothic style. Its dimensions are 197 feet by 71 1-2 feet. It is fireproof throughout. It contains the offices of administration as well as a large number of class rooms. It stands almost on the site of the University Hall which was destroyed by fire in 1907.

Science Hall

Science Hall is a three-story building 63 feet by 125 feet, built of gray pressed brick, with limestone trimmings. This building was first used in September, 1904. The laboratories and recitation rooms for chemistry, pharmacy, pathology, geology, physiology, bacteriology, and botany are in Science Hall. The laboratories of the State Pure Food and Health Commissions are also located in this building.

Carnegie Library

The Carnegie Library is a gift from Andrew Carnegie. It is built of gray pressed brick, and has two stories and a basement. The general reading room and offices are on the first floor. In the rear is a large stack annex, fitted up with sheet-metal stacks. On the second floor is a large room for general meetings. The law library and recitation rooms for the School of Law are at present in the basement.

Engineering Building

During the session of 1909-1910, a very substantial building was erected for the College of Engineering. While the ultimate design for this building is that it shall be used for the shops, it is so constructed that it makes provision at present for the entire work of the college. The building is brick and stone two stories high, 160 1-2 feet by 38 feet, with a one-story wing for the foundry, 38 feet, 10 inches by 30 feet, 2 inches. The whole is fire proof. It is so arranged that it has its own heating plant with a boiler which supplies sufficient steam for the inde-

pendent operation of all machinery in the college. The rooms of the second story give ample accommodations for the engineering library, for recitations, and all work in drafting. The entire west end of the first floor is used for shop work.

Law Building

The new law building, now in process of construction, will be complete and ready for occupancy at the opening session in September, 1913. It is 128 feet long and 55 feet wide, with additional 14 feet entrance projections on the east and west. It is built in solid Bedford stone, its architectural lines following in the main those of University Hall. It is centrally located overlooking the oval, and constitutes one of the wings of the permanent group of buildings of which University Hall is the center. It has three stories and a basement, and contains every feature necessary for a modern law school. This building is one of unusual beauty, solidity, and convenience. It is fireproof throughout.

Medical Buildings

The medical building at Norman is situated west of the temporary buildings on the campus. It contains an office and library room; a large room for charts, specimens, and other equipment; a large dissecting room; a preparation room; and a recitation room. For the present the work in Oklahoma City is carried on at 317 East Fourth Street, where recitation rooms, laboratories, and libraries are provided. The University Hospital is located at 325 East Fourth Street, Oklahoma City. It is a modern, thoroughly equipped hospital of sixty beds. The various hospitals and infirmaries of Oklahoma City, with which the School of Medicine is affiliated, are described in full in the special bulletin of the School of Medicine.

Gymnasium

The Gymnasium, built in 1903, is a frame building, 100 feet by 100 feet, divided into eight rooms. The main class room is 40 feet by 60 feet and 20 feet high, with a gallery seating 200 people; it is equipped with the best modern apparatus for drills, and for class and individual exercises. Locker rooms for men and for women, containing in all 355 steel lockers, and hot and cold shower and spray baths, are provided. The wings, for lockers, are 16 feet by 80 feet.

Temporary Buildings

Besides the buildings mentioned above, there are several smaller frame buildings on the grounds that were erected to relieve the congestion caused by the burning of the main building in 1907. These are used for the offices of the geological survey and for the university print shop.

Heating and Lighting Plant

Most of the buildings are heated and lighted from a temporary central plant. The engineering building has its own heating and power plant.

LABORATORIES

The university has the following laboratories, each with well selected apparatus and equipment to which additions are being made each year:

An anatomical laboratory.

Two botanical laboratories.

Several chemical laboratories including those for the State Pure Food and Health Commissions.

A civil engineering laboratory and electrical engineering laboratory.

Three geological laboratories in addition to those maintained for the State Geological Commission.

A mechanical engineering laboratory.

A laboratory for pathology and histology.

A pharmaceutical laboratory.

A physical laboratory.

A physiological laboratory.

A psychological laboratory.

A zoological laboratory.

COLLECTIONS

The botanical, zoological, and geological collections are excellent. In 1912 the Carroll collection of eggs, birds, animals and shells was purchased with the result that the university now has one of the best zoological collections in the Southwest.

THE LIBRARIES

The General Library is under the control of the Library Committee which is composed of the librarian as chairman, and two other members of the university faculty. It is administered with as few rules as possible, the desire of those in control being to help the greatest number of users possible to what they want and with such restrictions only as may seem necessary. On regular school days the library is open from 7:45 a. m. to 6:00 p. m. and from 7:00 to 10:00 p. m. On Saturday the hours are from 9:00 a. m. to 5:00 p. m.

The library, including departmental collections and government publications which it receives as a government depository, numbers about 20,000 volumes. Selection of the books has been made with much care, with the needs of a modern university constantly in view. The Dewey Decimal classification is followed. Government publications which may be of immediate use are being catalogued and

shelved with the rest of the library according to subjects, a process which will be continued as time permits.

Students and officers of the university may draw out books for home use in accordance with the published regulations. Persons not connected with the university, but known to the librarian, are invited to make use of the books in the reference room of the library. Gifts to the library are gladly received and are promptly acknowledged.

Information about the use of the library, catalogue, and various indexes and library aids will be given on request.

The library of the School of Medicine at Oklahoma City contains a small but well selected list of text-books and works of reference. New additions and publications are being added constantly. The reading room is supplied with the leading medical periodicals. The librarian is constantly in attendance to aid workers in their investigation.

The departmental library of the College of Engineering is situated in the engineering building. It contains books, magazines, and technical literature of value to the engineer.

The departmental library in geology is in Science Hall adjacent to the geological laboratories. It contains the important literature and maps pertaining to geology.

The law library is in the basement of the Carnegie Library. The books have been carefully selected. Other installments will be procured from time to time, as it is the purpose of the school to build up rapidly a library that will answer all the purposes of legal study and investigation. Several of the leading law journals are kept constantly on file. A member of the law faculty has general supervision of the reading room and student assistant librarians are in charge to give needed information and maintain order. The library is open during the day and in the evening.

UNIVERSITY PUBLICATIONS

The Bulletin: The Bulletin is the official publication of the university; it appears quarterly, in March, June, September, and December. Its object is to set before the public information about the different departments of the university, and to provide a way for the publishing of departmental reports, papers, theses, and such other matter as the university believes will be helpful to the cause of education in the state.

University Studies: University studies are published at irregular intervals. The publication now known as "University Studies" takes the place of the Research Bulletin which was published from 1909 until 1912.

The News Letter: The News-Letter is a semi-monthly publica-

tion established to give official information concerning the work of the university. It is published from the president's office.

STUDENT PUBLICATIONS

The University Oklahoman: The University Oklahoman is published twice a week by the students of the university.

The Sooner: The Sooner is an annual published by the junior class.

The University Magazine: The University Magazine is published once a month by students of the university.

NON-ATHLETIC ORGANIZATIONS—SOCIETIES FOR PUBLIC SPEAKING—CLUBS

There are in the university several societies for public speaking, debating, study of special problems, etc. All non-athletic student organizations that may have relations with the public are under the control of the university. They must on organization present the plan of their proposed undertaking to the Committee on Non-athletic Organizations and receive from the committee a certificate of approval. All organizations under the control of one or more members of the faculty and all literary and debating societies are required to furnish from time to time such information as may be desired by the committee.

The Senate: The Senate was organized in 1897 for practice in debate and parliamentary drill. It is for juniors and seniors only.

The Forum: The Forum was organized in 1898, and incorporated in 1901. It is devoted to literary work and practice in parliamentary principles.

The Websterian: The Websterian society was organized in 1903 for practice in general literary society work. It is associated with the Forum, and admits freshmen to membership.

The Zetalethean: The Zetalethean society was organized in 1904. It is a literary society for the women of the university.

The House of Representatives: The House of Representatives was organized in 1905 to cooperate with the Senate. It admits freshmen and sophomores.

The Oratorical Association: The Oratorical Association manages the intercollegiate debates and oratorical contests. It is governed by a council composed of faculty and student members.

The Pick and Hammer Club: The Pick and Hammer Club was organized in 1906 for the purpose of keeping students in touch with recent geological literature and of giving them an opportunity to present results of field investigations.

The Chemistry Club: The Chemistry Club was organized in

1908 to stimulate interest in chemistry and to furnish an opportunity for reports on original work.

Teutonia: Teutonia is a German club organized in 1907 to give students in the department practice in the German language and familiarity with German literature.

The Humanist Club: The Humanist is an English club organized in 1907.

The Women's Council: The Women's Council organized in 1912 is composed of one representative from each of the boarding houses and groups of houses in which women students room, and two representatives at large. Its officers are elected at a mass-meeting of all the women students of the university. The function of the council is to serve as a medium of communication between the different groups, and between these groups and the adviser of women, and to confer with the adviser of women on all matters of common interest and concern.

The Alumni Association: The Alumni Association was organized by the first graduates of the College of Arts and Sciences in 1898. All graduates of the university are now eligible to membership in the association.

Law Societies and Clubs: The Sooner Bar and the Chancery, literary societies organized by the law students, have for their objects the double purpose of training in public speaking, and training in legal argumentation. The Ames, Monnet, and Exchequer club courts are very active and profitable organizations for the presentation and trial of questions of law.

Musical Organizations: The various musical and dramatic organizations open to students in the School of Fine Arts are described in the bulletin of that school. They include the band, orchestra, glee club, choir, dramatic club, and the like.

The Engineers' Club: The Engineers' Club, organized in 1910, includes faculty and student members. It holds meetings once a month, at which specially prepared papers on engineering subjects are read and discussed.

The Sooner Dramatic Club: This club dates from the year 1912. It was organized to secure "a more thorough knowledge of the drama, and practice in the dramatic art." It is under the charge of the instructor in expression, and members are selected "for their literary attainments, their character and standing."

The Kanuntaklagi Klub, an honorary dramatic society, was organized in 1912.

The Student Association: The Student Association is composed of every student enrolled in the university. The Student Council is an executive committee of the association, and is composed of the

officers of the association and representives from each of the classes and departments. Its aim is to unify the student body, and control all activities not otherwise taken care of and all matters of general student concern.

The Philologian: The Philologian Literary Society was organized in 1912. Freshman and sophomore girls are admitted.

INTERCOLLEGIATE CONTESTS

Intercollegiate Debates: The University of Oklahoma contests annually with neighboring colleges in debate. All contracts and arrangements are made by the council of the Oratorical Association. In the past the university teams have competed successfully with the universities of Missouri, Kansas, Arkansas, and Colorado.

Intercollegiate Oratorical Contests: The university contests annually with colleges in the state and with colleges in neighboring states.

Intercollegiate Athletic Contests: Intercollegiate contests (subject to conditions regarding membership, team organization, and leave of absence imposed by the faculty), are held each year with other universities and colleges of the Southwest.

The Interscholastic Meet: The Interscholastic Meet for Oklahoma high schools was established in the spring of 1905. The contestants are from the various high schools of the state, and the meet takes place every spring on the last Friday and Saturday of April, at Norman, on Boyd Field. At the same time an interscholastic Musical Contest for Oklahoma high schools is held. The Oklahoma High School Debating League holds its final debates also upon the evening of the Interscholastic Meet. Inquiries concerning this meet should be addressed to the Physical Director, University of Oklahoma, Norman, Oklahoma.

ATHLETICS

The athletic sports and games of the University of Oklahoma are under the direction of the Athletic Association and the Athletic Council. The association is an organization of students for the encouragement and development of athletic sports. The council is made up of nine members: four students, four members of the faculty, and one alumnus. The four student members and one of the faculty members are elected by the students' association; the alumnus, and the other three faculty members are appointed by the President of the University.

The Athletic Council has full control of all athletic sports, of the athletic grounds, and of all funds and properties of the association.

It appoints all delegates to the conferences of any athletic association of which the University of Oklahoma is a member, selects all coaches, and awards all athletic honors. It also decides all questions as to the eligibility of players except those that have to do with scholastic standing, which are decided by the Committee on Eligibility.

The Committee on Eligibility is a committee of three appointed by the President of the University from the members of the faculty. It administers the regulations as to the number of hours and the class of work that must be carried by students before they are permitted to play on any athletic teams.

General Manager of Athletics

A general manager of athletics, designated by the management of the university, works under the direction and approval of the Athletic Council. He has charge of all business affairs of the council, makes all schedules and contracts with other schools, keeps the records of the teams and players, accompanies the teams from home when necessary, and is charged with the enforcement of all rules of eligibility.

MORAL AND RELIGIOUS TRAINING

Religious exercises, consisting of scripture readings, singing, and prayer, are held once a week in the university chapel. Although attendance is voluntary, the purpose of cultivating the moral, religious, and social spirit of the university is heartily recognized. Weekly prayer meetings are held by the Christian Associations of the university.

The Christian Associations: The Young Men's and Young Women's Christian Associations are the centers of the religious life of the university, and they are active in all forms of moral and Christian work properly within the scope of such organizations. All students are invited to membership, either active or associate. The Y. M. C. A. holds devotional meetings every Sunday afternoon at 2:30 o'clock. The Y. W. C. A. holds devotional meetings every Monday afternoon at 4:00 o'clock. In addition to these meetings the associations carry on social work, and they aim to become a practical help to the students in their university life. Members meet new students at the trains, aid them in securing suitable rooms and boarding places, hold receptions at the opening of the year and at various other times. The secretary of each association is glad to be helpful on all occasions.

Y. M. C. A. Secretary: The Y. M. C. A. now maintains a permanent general secretary who devotes his time to the work. He acts also as secretary of the students' employment bureau.

City Churches: Most of the important religious denominations

have organizations in Norman, and these churches extend a cordial invitation to students to join them in their work.

ADVISER OF WOMEN

In June, 1908, the office of dean of women was created. In 1912, this office was superseded by that of the adviser of women. The purpose of the office is to give advice and assistance to the women students of the university whenever requested, and to provide control and direction if such becomes necessary. It is especially desirable that young women who are away from home influences should have some one to whom they may look for confidential advice with reference to many matters affecting their welfare as women and as students. The adviser of women has jurisdiction over all social matters that concern the welfare of women students. Social affairs are not controlled by specific regulations, but in general women students will not be allowed to participate in functions not approved by the adviser of women.

FEES AND DEPOSITS

Tuition is free in all departments of the university. Students taking private lessons in the School of Fine Arts must pay the fees described below. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

In all laboratory courses students must pay the actual cost of material used. In some courses a fixed charge based upon the estimated cost of material is made and must be paid before beginning the work. In most laboratory courses a laboratory coupon book costing three dollars must be purchased by the student for each course and deposited with the instructor. From this book the cost of materials issued to the student will be taken at the time of issue. Such additional coupon books as may be necessary must be purchased from time to time. Any unused portion of such laboratory coupon books will be refunded in cash at the end of the year, or when the student leaves the university, provided he notifies the financial clerk at the time of departure that he must withdraw; but no such refund will be made after the close of the fiscal year, July 1.

After July 1, 1913, the fixed charges will be as follows:

For late registration	$ 2.00
Anatomy 1 and 4, each	2.00
Anatomy 2	15.00
Anatomy 3	10.00
Materia Medica 4	1.00

Physiology 1	2.00
School of Medicine third year	10.00
School of Medicine fourth year	10.00
Student enterprise ticket	5.00

In the following courses laboratory coupon books must be purchased, one for each course. The cost of these will vary for different students, but will be approximately as follows:

Bacteriology 1, 101, 102, 103, each	$ 5.00
Bacteriology 2, 3, each	3.00
Chemistry 2, 51, 101, 121, 152, 125 each	5.00
Chemistry 1, 4, 5, 102, 103, 104, 105, 106, 107, 108, 122, 123, 124, 126, each	10.00
Embryology	3.00
Geology 102, 103, each	3.00
Pathology 1, 102, 103, each	3.00
Pharmacology 1	3.00
Pharmacy 2, 3, 5, 7, each	5.00
Physiology 3 and 5, each	3.00
Zoology 1, 2, 100, 101, 102, 103, 200, 201, each	3.00
Shop 1, 3, 4, each	3.00
Shop 2	5.00

The fee of $5.00 for a student enterprise ticket will be collected from each student. This ticket entitles the student to admission to lecture course numbers, and to debating, athletic, musical, oratorical, dramatic, and other general university affairs. The payment of this fee is not compulsory but it is expected that each student will purchase the ticket because of the many advantages accruing therefrom, and it is necessary that every student buy one in order to make this plan of supporting student affairs a success. It is hoped, therefore, that the loyalty of the students toward the general interests of the university will be such that there will be no requests for exemption from this payment.

Fine Arts Fees

Tuition is free for all courses offered in the School of Fine Arts except that charges are made for individual lessons as follows.

For preparatory music, two thirty minute lessons a week, $18.00, $27.00, and $36.00 a semester depending on which instructor is chosen.

For applied music (piano, voice, violin) Groups I, II, or III, two thirty minute lessons a week, $18.00, $27.00, and $36.00 a semester depending on which instructor is chosen.

For instruction in band and orchestra instruments, two thirty minute lessons a week, $18.00 a semester.

For water-color or china painting, daily lessons, $27.00 a semester.

For courses in expression, first, second, or third year, two thirty minute lessons a week, $27.00 a semester.

Fees are payable strictly in advance and no lessons will be given until a receipt from the financial clerk is presented to the instructor.

Fees are not refunded except when a student must discontinue his lessons for unavoidable cause.

Students absent from more than one-third of the lessons for which they are enrolled in applied music or expression will be dropped and no fees will be refunded.

In the courses of drawing and painting, students must pay for their own material.

BOARD AND ROOMS

Board, including furnished rooms, can be had for from $4 to $6 a week. The average cost of living is as low in Norman as in any other town of its size in the state. The general advance in prices, however, so noticeable during the past several years, has increased the cost of living here as elsewhere. While the increase is not serious, it should be borne in mind, for whereas several years ago plain table board could be had for $2.00 a week, it costs now from $3.00 to $4.50. Rooms for two may be secured for $6 to $12 a month.

King Hall, a dormitory for young women, was opened in September, 1910. This is owned and controlled by the Protestant Episcopal Church. Those interested should address the Matron, King Hall, Norman, Oklahoma.

OPPORTUNITIES FOR SELF SUPPORT

There is work to do at the University of Oklahoma and in the town by which students may support themselves wholly or in part while attending school. The university can not promise employment to any one, and it does not encourage young people to enroll who are entirely without resources, but it does assist deserving students who show a willingness to help themselves. The Young Men's and Young Women's Christian Associations are active in helping students, and lists of places where work may be had are furnished the office each term. The Young Men's Christian Association secretary is secretary of the students' employment bureau. Every year students add to their income by their labor outside of school hours; but they rely on their own ability, industry, and character in all cases. Those older in residence and known to be capable have the better opportunity. The business men of Norman and the citizens in general are in sympathy with the young people of the university and favor them whenever

possible. Those with trades—stenographers, printers, etc., find work as readily in Norman as they would in any other Oklahoma town of 4,000 inhabitants. Others can get odd jobs to do by the hour. Usually students who must work their way are advised to plan for an extra year in which to finish their course.

SCHOLARSHIPS AND PRIZES

Fellowships and Scholarships: Appointments to fellowships and scholarships are usually made upon the recommendation of the head of the department concerned. Students who have done work in residence at the university are usually chosen for these positions. Fellowships as a rule are awarded to candidates for a graduate degree, while scholarships are given to undergraduate students. The value of the fellowship depends upon the nature and amount of work to be done. For the year 1913-14 the following fellowships and scholarships will be awarded:

Fellowships in chemistry, education and electrical engineering. Scholarships in chemistry, geology, pathology, pharmacy, and physics.

The Garber Cup: In May, 1906, Judge M. C. Garber, of Enid, presented to the Forum and Senate debating clubs a trophy cup for excellence in public speaking and parliamentary practice which is contested for annually.

The Render Medals: Through the courtesy of Samuel P. Render, Esq., of Lawton, the Oratorical Association and the School of Fine Arts are holders of gold medals to be contested for annually.

Debating Prizes: Several small prizes are offered in the preliminaries for intercollegiate debates.

The Butte Debating Prize: Hon. George C. Butte, of Muskogee, has very generously made an offer to the University of Oklahoma to establish a prize of twenty-five dollars to be awarded to the university student receiving first honors in debate. Mr. Butte offers this prize annually for ten years.

American Law Book Company Prize: The American Law Book Company offers to a third year student in the School of Law a prize consisting of the first thirteen volumes of the Cyclopedia of Law and Procedure, to be awarded at the discretion of the law faculty. This prize, valued at $97.00, the faculty has decided to award at the time of graduation to the most meritorious student in the third year class, taking into consideration the entire course. The award is based on grades in examinations, class-room proficiency, ability in logical and succinct statement, interest displayed in club courts and other law school activities, use of the library, and strength of character.

Callaghan & Company Prize: Callaghan & Company, law publishers, of Chicago, offer Andrews' American Law in two volumes

as an annual prize to the student in the second year law class who attains the highest proficiency and the best general average for the year.

Rhodes Scholarship: The Cecil Rhodes Scholarships are of interest to all the colleges of the state. The competitive examinations are held at the university. They are open to all qualified students of the university or of other colleges.

Letzeiser Medal: Through the courtesy of Letzeiser & Co., of Oklahoma City, a gold medal, known as the Letzeiser Medal, is given each year to the best all-round student in the university. The points considered in making the selection are: scholarship, 40 per cent; general activties, 30 per cent; literary work, 15 per cent; athletics, 15 per cent. The winner is selected by popular vote of the student body.

UNIVERSITY EXTENSION

For several years the University of Oklahoma has been carrying on extension work under the direction of a committee of the faculty on university extension. Lectures and courses have been given before clubs, teachers' associations, and schools. Bulletins have been published from time to time which have given lists of lectures and general information about this work. The legislature in 1913 made provision for enlarging the scope of university extension and the State Board of Education established the Department of Extension Lectures and the Department of Public Information and Welfare. Experienced directors were placed in charge and the work of organization begun. As planned at present, university extension includes extension lectures and courses of lectures, public discussion clubs, correspondence study, help in the organization and preparation of debates on public questions etc.

It is the aim of the University of Oklahoma to lend its aid to all educational activities which are being carried on in this state, and it regards the fulfillment of this aim as one of its great obligations towards the people of the commonwealth and one in the pursuit of which it desires to be especially active.

For information concerning any kind of extension work direct communications to the Department of University Extension, University of Oklahoma, Norman.

DIRECTIONS FOR NEW STUDENTS

Entrance

New students should first obtain a certificate of admission. The requirements for admission to the several schools, and the several methods of admission, are explained in full under "Admission".

Registration

The periods of registration may be learned from the calendar at the beginning of this publication. Late registration should be avoided. Students may not enroll for credit at a late date. A fee of $2.00 is charged those who enroll after the regular days of registration.

After a new student has been given a certificate of admission, he should to go to the registration office for matriculation. He should then go to the proper dean, or enrolling committee, and ,after consultation, make out the study card, which must be approved by the dean, or, in the case of an advanced student in the academic schools, by the student's major professor.

The study card, after approval, must be filed with the treasurer, and the prescribed fees must be paid.

Work may be taken in more than one school, subject to the approval of the deans concerned.

No student is permitted to enroll for an excessive amount of work. The limit of hours is at the discretion of the faculty of the school or college in which the student is enrolled. Sixteen hours a week is the standard in the College of Arts and Sciences. The hour, as used in the university, is understood to mean one hour of class work with at least two hours of preparation, or the equivalent, each week, for one semester.

Board and Rooms

Students who desire assistance in finding rooms and board should apply to the Y. M. C. A. Secretary. Women should consult the Adviser of Women.

Change of Studies

A student desiring to drop a study, or take a new one, after the study card has been filed, must present to the dean, or other adviser, a petition for the change. If the petition is approved by the dean and by the instructors concerned, it must be filed in the same manner as the original study card. Blanks for the petition are secured at the registrar's office.

Absence From Recitation

To pursue work properly in the university a student should be present at each meeting of the class. If he is obliged to be absent from any recitation or lecture on account of sickness, or other unavoidable cause, a report should be made promptly to the instructor concerning the reason for the absence. Violation of the above subjects the student to such penalties as may be imposed at the discretion of the several faculties.

Withdrawal

Permission to withdraw from the university before the close of

the semester should be secured from the dean and filed with the registrar. Otherwise a certificate of honorable withdrawal or a refund of deposits will not be granted and the student will receive a mark of "F" in all courses.

Physical Training

All students entering the university are expected to take the prescribed work in physical training during the first year. This does not apply, however, to students entering with at least one year's work of college rank, accepted in full by the university.

Planning Work For the Year

Work begun in a subject should ordinarily be carried through the year. This is especially true in courses of an elementary character, and no beginning work in a foreign language is credited toward a degree or toward the removal of entrance conditions unless carried satisfactorily through both semesters.

Official Notices

Students should watch the bulletin board for notices. An official notice, properly posted, is considered sufficient information to students of any necessary changes in program or of other changes of a similar nature.

Examinations

An examination at the end of each course of study closes the work to that point.

Reports to Parents and Guardians

At the close of each semester, or whenever deemed advisable, a report of the student's class standing will be sent to the parent or guardian.

Grades

Students' grades in all courses are filed with the registrar. The grades used ordinarily are "A," meaning excellent; "B,"meaning good; "C," meaning fair; "D," meaning condition; "F," meaning failure.

Conditions and Failures

A student who fails to complete the work of any course, will receive a mark of "failure" or "condition". Such condition may be removed in accordance with the provisions for such removal made by the faculty offering the course. A student who has failed in a required subject must, if possible, register for it the first time it is given. A student failing in any course can not receive credit for it until it has been taken again in class.

Students receiving a mark of failure or condition in more than one-third of the work in which they are enrolled in any semester forfeit their connection with the university. It is within the discretion of the faculty to reinstate such students on proper petition and showing.

ADMISSION

ADMISSION

GENERAL REQUIREMENTS FOR ADMISSION

The work of the several undergraduate schools and colleges of the university is planned to follow the completion of at least four years' preparation in an acceptable high school, or the equivalent, except as provided for in the two-year course of the School of Pharmacy, and in the School for Nurses.

Applicants for admission to the College of Arts and Sciences, the School of Medicine, the College of Engineering, and the School of Fine Arts, must be at least sixteen years of age, but for admission to the School of Pharmacy, and the School for Nurses, applicants must be at least seventeen, and to the School of Law, at least eighteen. No age limit is set for admission as an unclassified or as a preparatory student in the School of Fine Arts.

The university is open on equal terms to both sexes.

Admission may be either by examination or by certificate, and may be either to freshman, to unclassified, or to advanced standing.

ADMISSION BY EXAMINATION

The Committee on Admission will conduct entrance examinations at the university on Friday and Saturday, following Commencement in June, on Monday and Tuesday of the opening week of school in September, and on Monday and Tuesday preceding the beginning of the class work of the second semester, in such subjects as are called for one week before the date set for the beginning of the examinations. All applicants who do not hold certificates of admission should present themselves for examination. This examination is not open to persons who have already matriculated as students in the university.

ADMISSION BY CERTIFICATE

Applicants may be admitted without examination on presentation of properly indorsed certificates from affiliated schools, or on credentials from other schools of recognized standing. Admission may be partly by certificate and partly by examination.

Graduates of regularly affiliated schools should file their certificates with the registrar at or before matriculation. All other applicants for admission should file their records with the Committee on Admission at least two months before the opening of school. The committee will then have time to report to applicants upon what terms they may be admitted.

ADMISSION TO FRESHMAN STANDING

The requirements for admission to freshman standing are usually stated in units. The unit of entrance credit is the standard amount of work required in a secondary school subject given thirty-six weeks, with five recitation periods a week, of forty-five minutes each, or with four recitation periods of sixty minutes each. The unit is also defined as one-fourth of a full year's work.

For a subject carried eighteen weeks with five recitation periods a week of forty-five minutes each, one-half unit of credit is given. One-half unit is also given for a subject carried thirty-six weeks with three recitation periods a week of forty-five minutes each.

Fifteen properly selected units of credit secured either by examination or by certificate from an acceptable school will admit the student to freshman standing.

REQUIREMENTS FOR ADMISSION TO THE SEVERAL SCHOOLS OF THE UNIVERSITY

The requirements for admission to the several undergraduate schools of the university are given below in units. All work should be chosen from the subjects listed under "Description of Courses Accepted for Admission."

	Arts and Sciences	Engineering	Fine Arts	Law	oMedicine	School for Nurses	Pharmacy Four Years	Pharmacy Two Years
English - - - -	3	3	3	3	3	2	3	2
Algebra - - - -	1	1 1-2	1	1	1	1	1	1
Geometry - - - -	1	1 1-2	----	1	1	----	1	----
History - - - -	1	1	1	----	1	1	1	1
One Foreign Lang. -	2	2+	2	----	2++	1++	2++	1++
Physics - - - -	1*	1*	----	----	1	----	1	----
Elective - - - -	6	5	8**	10	6	2	6	2
Total	15	15	15	15	15	7	15	7

*Chemistry, one unit; botany, one unit; zoology, one unit; or botany and zoology, one-half unit each, may be substituted.

+Must be German in Chemical Engineering.

**Six of these units are credited for the technical work in piano or in violin required for admission to the music courses.

++Must be Latin.

oAfter January 1, 1914, one year of college credit in addition to the fifteen units will be required.

Applicants presenting fifteen units, including three of English and

two of mathematics, will be admitted to freshman standing; but deficiencies in the required subjects, if any, must be made up before sophomore classification is given.

NOTE.—The term freshman standing is used throughout this section as descriptive of students presenting the requirements for admission to the freshman class of the College of Arts and Sciences, or the minimum requirements for admission to the first year of a professional school.

UNCLASSIFIED STUDENTS

Applicants, not candidates for a degree, may be admitted to such work as they are prepared to take. Such applicants for admission must be twenty-one years of age, or must satisfy the requirements for admission to freshman standing, except as provided in the School of Fine Arts.

Applicants presenting at least twelve units, including three of English and two of mathematics, may be admitted to a part of the freshman work in the College of Arts and Sciences, the College of Engineering, or the School of Fine Arts while they are making up deficiences. Such students are ranked as unclassified students until their deficiencies are made up. All deficiencies must be made up during the first year in residence. Such applicants must be either high school graduates or must be recommended for admission by the authorities of the high school last attended. Admission as an unclassified student is subject to the approval of the dean of the college or school concerned.

MAKING UP DEFICIENCIES

As stated in the preceding section, high school graduates deficient in not more than three units may enter the College of Arts and Sciences, the College of Engineering, and the School of Fine Arts, and may be permitted to enroll in part of the freshman work. In such cases the deficiencies may be made up in the high school, or with the aid of private tutors, or as provided in the next paragraph. The student must be guided in the choice of method by the advice of the dean. The whole number of hours which a student is carrying must not exceed, however, the limit set by the rules governing the amount of work.

In general, all deficiencies should be made up before college work is taken. Certain courses of college rank, however, may be counted towards the satisfaction of entrance units. In making up deficiencies one four-hour course in the college is equivalent to one unit of entrance credit. No work may be counted twice, that is, both in fulfillment of entrance requirements and as hours toward a degree.

ADVANCED STANDING FOR WORK DONE IN HIGH SCHOOLS

College credit for work done in the high school in excess of sixteen units will be given only upon examination. In general, application for such credit may be made only by graduates of affiliated high schools who have done work in excess of the requirements for graduation. Such excess work should be certified in detail to the Committee on Admission. Application for advanced standing must be made to the committee at or before matriculation.

In general, college credit for work done in high schools will be given only for advanced courses and will be approximately half of the time given. That is, a student taking a fifth year in the high school cannot expect more than a half year's credit in the university.

ADVANCED STANDING FOR WORK DONE IN NORMAL SCHOOLS

Students who have completed work of college rank in the state normal schools of Oklahoma are admitted to the university with advanced standing in the College of Arts and Sciences, credited at the rate of thirty hours for the full year's work. Such credit will be given only for courses taken after the completion of fifteen standard entrance units. Sixty hours is the maximum amount of credit that will be given to graduates of the normal schools, except that additional credit not to exceed four hours in physical training may be given.

ADVANCED STANDING FOR WORK DONE IN OTHER COLLEGES AND UNIVERSITIES

Students from other schools who have pursued standard college courses equivalent to those of the university will receive credit for such courses upon presentation of proper certificates of creditable standing and honorable dismissal.

All applications for advanced standing must be filed at or before matriculation. Students coming from approved colleges whose requirements for admission are substantially those of the university will be admitted ordinarily to equal standing, provided they enter not later than the beginning of the senior year. The full equivalent of the senior year's work of the college or school in which the candidate is enrolled must be completed in residence before a degree will be granted. In no case will advanced standing for more than three year's work, or 90 academic hours toward graduation, be given.

Examination for advanced standing may be given to applicants who cannot furnish satisfactory certificates of having taken the work

in an approved college. The amount of credit so obtained, and the subjects upon which examination will be given, will be determined by the dean.

ADMISSION TO THE GRADUATE SCHOOL

For admission to graduate standing see catalogue under the head of the Graduate School.

AFFILIATION OF SCHOOLS

When the authorities of any school desire to affiliate with the university, formal application for inspection should be made to the High School Inspector, University of Oklahoma, Norman, Oklahoma.

It is understood that the high school exists for the training of the greater number who do not go to college, rather than for the smaller number who do go. The courses that constitute the best education for the duties of practical life constitute also the best preparation in general for the college or technical school. The standards set for affiliation are practically those of the North Central Association of Colleges and Secondary Schools, which were made jointly by colleges and high schools. If the pupil is to be credited for admission with high school courses, the courses should be given under conditions that develop as nearly as possible their full educational value. The co-operation of the high schools of the state will be welcomed in shaping the rules of affiliation to conform to the best standards. The educational ideals promoted by the state should be such as to serve the interests of the high school and the university alike.

A high school with a curriculum largely elective is not expected to make specific requirements for graduation to fit the entrance requirements of the several colleges or schools of the university. It is enough for the university to ask that a student be given an opportunity to select such work as will fit him to enter the school of his choice.

Standards for Accredited Schools

(1) The high school curriculum should cover four school years of not less than thirty-six weeks each, and should follow an elementary course of not less than eight years in length.

(2) The curriculum should require of each pupil not more than four recitations daily with periods not less than forty minutes in length. Minor subjects not counted toward graduation are not considered.

(3) Schools seeking credit in science, history, and English should possess adequate laboratory and library equipment in those branches.

(4) The school should offer at least fifteen of the standard units

accepted by the North Central Association of Colleges and High Schools. These units are named and described on pages following. Three units of English and two of mathematics should be required for graduation.

(5) Instructors should not conduct more than six recitations daily, and the number of instructors teaching exclusively in the high school should bear the proportion of one to not more than than thirty students.

(6) The minimum scholastic attainment of all instructors should be equivalent to graduation from a standard college or university, including special work in the subjects taught. Such requirements, however, are not to be construed as retroactive.

Admission from Accredited Schools

In determining the amount of credit to be granted to any school, each subject will be considered separately. Credit will be granted for such subjects as are taught in accordance with the foregoing requirements by competent teachers who have the use of adequate library and laboratory facilities. Each school therefore may secure credit for part or for all of its work. High schools offering less than four years' work will be accredited for such subjects as are sufficiently well taught to meet the foregoing requirements. Graduates of such schools, however, will need to complete their preparation in other accredited high schools or in the state university preparatory schools.

The high school inspector will send to the school authorities a list of the units of entrance credit for which the school is accredited and a duplicate list will be filed with the university Committee on Admission. The principal or superintendent will thereafter be asked only to certify to the registrar of the university the particular units that graduates of the high school have completed when they enter the university.

Any school whose graduates have been customarily admitted in the past to substantially freshman standing is considered as accredited until the high school inspector has had an opportunity to visit it and file his reports with the university. The Committee on Admission will pass on the individual records of graduates seeking admission from such schools.

Graduates of high schools that have been inspected and accredited should file their certificates with the registrar at or before matriculation. All other applicants for admission should file their records with the Committee on Admission at least two months before the opening of school. The committee will then have time to report to applicants upon what terms they may be admitted.

The accrediting of four years' work means that a high school

affords every pupil at graduation the opportunity for freshman standing in the university, if the work has been properly selected.

Private academies, seminaries, and other secondary schools may be accredited on the same basis as public high schools.

Schools are accredited for one year or longer, but after one year a new inspection and a new accrediting of the high school may be made.

SUGGESTED FOUR YEAR CURRICULUM

As stated in another section, the high school is not expected to make specific requirements for graduation to fit the entrance requirements of the several schools of the university. The curriculum given below is copied from the manual recently issued by the State Board of Education and is printed here as offering interesting suggestions.

English	Algebra	Foreign Language or Ancient History	Phys. Geog. 1-2 Botany 1-2
English	Plane Geom.	Foreign Language, Modern History, Agriculture (two of three)	
English	Physics	Foreign Language	Elective
Foreign Language	Electives, two subjects		Amer. Hist. and Civics

Either fourth year English, shorthand and typewriting, or physiology is suggested as one of the electives of the fourth year. One half year of algebra in the fourth year is recommended.

Latin and German are recommended as suitable foreign languages.

SUBJECTS ACCEPTED FOR ADMISSION

1, 2, 3, English—College Entrance Requirements . 3
4 Fourth year English . . 1
5 Algebra through Quadratics 1
6 Plane Geometry . . . 1
7a Solid Geometry . . . 1-2
7b Algebra from Quadratics 1-2
(One-half year taken after plane geomtery)
7bb The same when taken for one year and before plane geometry . . . 1-2
8a Trigonometry . . . 1-2
8b Advanced Algebra . 1-2
9 Ancient History . . . 1
10 Modern History . . 1
11 English History . 1-2 or 1
12 American History 1-2 or 1
13a Civics 1-2
13b Economics . . . 1-2
14 First year Latin . . 1
15 Caesar—four books . . 1
16 Cicero—six orations . 1
17 Vergil—six books . . 1
18 First year Greek . . . 1
19 Anabasis 1
20 Homer 1
21 First year German . . 1
22 Second year German . 1
23 Third year German . . 1
24 Fourth year German . 1
25 First year French . . 1
26 Second year French . 1
27 Third year French . . 1
28 Fourth year French . . 1
29 First year Spanish . . 1
30 Second year Spanish . 1
31 Physics 1
32 Chemistry 1
33 Physical Geography 1-2 or 1
34 Botany . . . . 1-2 or 1
35 Zoology (one year) . . 1
35a Zoology (one-half year) 1-2
35b Physiology (one - half year) 1-2

OCCUPATIONAL SUBJECTS

(Not more than three units credited.)

36 Manual Training—Shop Work . . . 1-2 or 1
37a Free-Hand Drawing . 1-2
37b Free-Hand Drawing . 1-2
37c Mechanical Drawing . 1-2
38 Domestic Science . 1-2 or 1
39 Agriculture . . 1-2 or 1
40a Commercial Law . . . 1-2
40b Commercial Geography 1-2
41a Arithmetic . . . 1-2
41b Bookkeeping . . . 1-2
42 Shorthand and Typewriting . . 1

In general entrance credits are given only for such subjects as are enumerated in the table of units printed above and described in the following pages. Biology is by definition a half unit of botany and a half unit of zoology, and is so credited. Physical geography may include work in geology.

A unit course covered in one-half year will be given one-half unit of credit only when it is so indicated in the table. For example, botany completed in one-half year will be credited (as No. 34 1-2), while chemistry will not be credited for less than a full unit. A unit of work done in less than the standard time is credited in full only upon examination.

DESCRIPTION OF COURSES ACCEPTED FOR ADMISSION

The outlines in the Oklahoma High School manual furnish more detailed description of unit courses.

ENGLISH

Three or Four Units

1-3. The three units required in English should cover spelling pronunciation, grammar, including especially syntax, persistent training in composition, the essential principles of rhetoric, and the reading of the books prescribed by the Joint Committee on Uniform Entrance Requirements in English. For a fuller statement of the character and quality of the work required, see the definitions of English units in the manual issued by the North Central Association.

4. A fourth unit may be given for one full year's additional work in the study of English and American authors.

For affiliated high schools the following plan is suggested:—

First year. Literature, two periods; composition, three periods.

Second year. Literature, two periods; composition and rhetoric, three periods.

Third year. Literature, three periods; composition and rhetoric, two periods.

Fourth year. Literature, four periods; composition and rhetoric, one period.

An outline history of English literature may well be studied as a part of either the third or the fourth year's work. Although the university requires for admission but three years of English, a four-year high school should offer four units. It is recommended that all students who do not take four years of foreign language should take the entire English course. If a plan of work has but three units of English, it is often more convenient to leave out the third year.

The list of books, as arranged by the Joint Committee on Entrance Requirements in English, is divided into two parts, the first consisting of books to be read with attention to their contents rather than to their form, the second consisting of books to be studied thoroughly and minutely.

"With reference to the second list, the Joint Committee recommends that each of the books prescribed for study be taught with re-

ference to subject matter, form, and structure; and that, in addition, attention be given to the essentials of English grammar and to the leading facts in those periods of English literary history to which the prescribed works belong.

"The lists and requirements below are intended to indicate in a general way the extent and character of the required work, and are not to be interpreted as limitations upon the teacher's choice. Books of equal merit, covering a similar range of literary types, will meet the requirements satisfactorily."

"I. Books Prescribed for Reading

With a view to large freedom of choice, the books provided for reading are arranged in the following divisions and groups, from which at least ten units, are to be selected, two from each group:

"For 1913 and 1914:

GROUP I—

The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther

Homer's Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII

Homer's Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI

Vergil's Aeneid

The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

FOR ANY UNIT OF THIS GROUP A UNIT FROM ANY OTHER GROUP MAY BE SUBSTITUTED.

GROUP II—

Shakespeare's Merchant of Venice, Midsummer Night's Dream, As You Like It, Twelfth Night, Henry the Fifth, Julius Caesar

GROUP III—

Defoe's Robinson Crusoe, Part I

Goldsmith's Vicar of Wakefield

Scott's Ivanhoe, or
Quentin Durward

Hawthorne's House of the Seven Gables

Dickens' David Copperfield, or
Tale of Two Cities

Thackeray's Henry Esmond

Mrs. Gaskell's Cranford

George Eliot's Silas Marner

Stevenson's Treasure Island

GROUP IV—

Bunyan's Pilgrim's Progress, Part I

The Sir Roger de Coverley Papers in the Spectator

Franklin's Autobiography (condensed)

Irving's Sketch Book

Macaulay's Essay on Lord Clive, and Essay on Warren Hastings

Thackeray's English Humorists

Selections from Lincoln, including at least the two Inaugurals and Lincoln's Speeches in Independence Hall and at Gettysburg, Last Public Address, Letter to Horace Greeley, along with a brief memoir or estimate

Parkman's Oregon Trail

Thoreau's Walden or

Huxley's Autobiography and Selections from Lay Sermons, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk

Stevenson's Inland Voyage, and Travels with a Donkey

GROUP V—

Palgrave's Golden Treasury (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns

Gray's Elegy in a Country Churchyard, and Goldsmith's Deserted Village

Coleridge's Ancient Mariner, and Lowell's Vision of Sir Launfal

Scott's Lady of the Lake

Byron's Childe Harold, Canto IV, and The Prisoner of Chillon

Palgrave's Golden Treasury (First Series) Book IV, with special attention to Wordsworth, Keats, and Shelley

Poe's Raven

Longfellow's Courtship of Miles Standish, and Whittier's Snow Bound

Macaulay's Lays of Ancient Rome, and Arnold's Sohrab and Rustum

Tennyson's Gareth and Lynette, Lancelot and Elaine, and the Passing of Arthur

Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City

"For 1915, 1916, 1917, 1918, and 1919:

GROUP I—CLASSICS IN TRANSLATION

The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther

Homer's Odyssey, with the ommission, if desired, of Books, I, II, III, IV, V, XV, XVI, XVII

Homer's Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVIII, XXI

Virgil's Aeneid

The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

GROUP II—SHAKESPEARE

Shakespeare's Midsummer-Night's Dream, Merchant of Venice, As You Like It, Twelfth Night, The Tempest, Romeo and Juliet, King John, Richard II, Richard III, Henry V, Coriolanus, Julius Cæsar, Macbeth, Hamlet

N. B.—The last three only, if not chosen for study

GROUP III—PROSE FICTION

Malory's Morte d'Arthur (about 100 pages)
Bunyan's Pilgrim's Progress, Part I
Swift's Gulliver's Travels (Voyages to Lilliput and to Brobdingnag)
Defoe's Robinson Crusoe, Part I
Goldsmith's Vicar of Wakefield
Frances Burney's Evelina
Scott's Novels: any one
Jane Austen's Novels: any one
Maria Edgeworth's Castle Rackrent, or The Absentee
Dickens' Novels: any one
Thackeray's Novels: any one
George Eliot's Novels: any one
Mrs. Gaskell's Cranford
Kingsley's Westward Ho! or Hereward the Wake
Reade's The Cloister and the Hearth
Blackmore's Lorna Doone
Hughes's Tom Brown's Schooldays
Stevenson's Treasure-Island, or Kidnapped, or The Master of Ballantrae
Cooper's Novels: any one
Hawthorne's The House of the Seven Gables, or Twice Told Tales, or Mosses from an Old Manse
A collection of short stories by various standard writers

GROUP IV—ESSAYS, BIOGRAPHY, ETC.

The Sir Roger de Coverley Papers, or
Selections from The Tatler and The Spectator (about 200 pages)
Boswell's Selections from the Life of Johnson (about 200 pages)
Franklin's Autobiography
Irving's Selections from the Sketch Book (about 200 pages), or
The Life of Goldsmith

Southey's Life of Nelson
Lamb's Selections from the Essays of Elia (about 100 pages)
Lockhart's Selections from the Life of Scott (about 200 pages)
Thackeray's Lectures on Swift, Addison, and Steele in the English Humorists
Macaulay: one of the following essays: Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederick the Great, or Madame d'Arblay
Trevelyan's Selections from Life of Macaulay (about 200 pages)
Ruskin's Sesame and Lilies, or
Selections (about 150 pages)
Dana's Two years Before the Mast
Lincoln's Selections, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, The Last Public Address, and Letter to Horace Greeley, together with a brief memoir or estimate of Lincoln
Parkman's The Oregon Trail
Thoreau's Walden
Lowell's Selected Essays (about 150 pages)
Holmes's The Autocrat of the Breakfast Table
Stevenson's Inland Voyage, and Travels with a Donkey
Huxley's Autobiography and selections from Lay Sermons, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk
A collection of Essays by Bacon, Lamb, DeQuincy, Hazlitt, Emerson, and later writers
A collection of letters by various standard writers

GROUP V—POETRY

Palgrave's Golden Treasury (First Series) Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns.
Palgrave's Golden Treasury (First Series) Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study)
Goldsmith's The Traveller and The Deserted Village
Pope's The Rape of the Lock
A Collection of English and Scottish Ballads, as, for example some Robin Hood ballads, The Battle of Otterburn, King Estmere, Young Beichan, Bewick and Grahame, Sir Patrick Spens, and a selection from later ballads
Coleridge's The Ancient Mariner, Christabel, and Kubla Khan
Byron's Childe Harold, Canto III or IV, and The Prisoner of Chillon
Scott's The Lady of the Lake, or Marmion
Macaulay's The Lays of Ancient Rome, The Battle of Naseby, The Armada, Ivry

Tennyson's The Princess, or Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur

Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, "De Gustibus—," The Pied Piper, Instans Tryrannus

Arnold's Sohrab and Rustum, and The Forsaken Merman

Selections from American Poetry, with special attention to Poe, Lowell, Longfellow, and Whittier

"II. Books Prescribed For Study and Practice

"For 1913 and 1914:

Shakespeare's Macbeth

Milton's L'Allegro, Il Penseroso, and Comus

Burke's Speech on Conciliation with America; or both

Washington's Farewell Address, and Webster's First Bunker Hill Oration

Macaulay's Life of Johnson, or

Carlyle's Essay on Burns

"For 1915, 1916, 1917, 1918, and 1919:

GROUP I—DRAMA

One to be Selected

Shakespeare's Julius Caesar, Macbeth, Hamlet

GROUP II—POETRY

One to be Selected

Milton's L'Allegro, Il Penseroso, and either Comus or Lycidas

Tennyson's The Coming of Arthur, The Holy Grail, and The Passing of Arthur

The selections from Wordsworth, Keats, and Shelley in Book IV of Palgrave's Golden Treasury (First Series)

GROUP III—ORATORY

One to be Selected

Burke's Speech on Conciliation with America

Macaulay's Two Speeches on Copyright, and Lincoln's Speech at Cooper Union

Washington's Farewell Address, and Webster's First Bunker Hill Oration

GROUP IV—ESSAYS

One to be Selected

Carlyle's Essay on Burns, with a selection from Burns' Poems

Macaulay's Life of Johnson

Emerson's Essay on Manners

MATHEMATICS

Two to Four Units

5. **Algebra Through Quadratics:** The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, solution of equations of the first degree containing one or more unknown quantities, radicals including the extraction of the square root of polynomials and numbers, quadratic equations with numerical co-efficients, and problems depending upon such equations. This unit is required of all candidates for admission to freshman standing and should be given in the first year of the high school.

6. **Plane Geometry:** The adopted text completed, including the solution of original exercises and numerical problems. This unit is required. It is recommended that this work be given in the second year of the high school.

7a. **Solid Geometry:** The adopted text including properties of straight lines, planes, dihedral and polyhedral angles, projections, polyhedrons, cylinders, cones, spheres, spherical triangles, and the measurements of surfaces and volumes. This half-unit is required for admission to the College of Engineering and is strongly recommended for all courses. It should be given the first half-year following plane geometry.

7b. **Algebra;** A review of the theory in the first year's course followed by ratio and proportion, theory of exponents, theory of quadratic equations, graphical representation, simultaneous quadratics, binominal theorem for positive integral exponents, progressions, logarithms, including the use of four-place tables. This half-unit is required for admission to certain schools of the university and is strongly recommended for all students. It should be given after the completion of plane geometry, preferably in the fourth year, and a year's work in algebra in the second year of the high school is considered barely the equivalent of a half year's work after the training given by a year of plane geometry.

8b. **Advanced Algebra:** Embracing a study of complex numbers, theory of logarithms, permutations and combinations, binomial theorem, partial fractions, determinants, and the elements of the theory of equations including Horner's Method. One-half unit. This course is not recommended for secondary schools. The work must be clearly in addition to the algebra requirements of one and one-half units described under 5 and 7b. Credit will be given for this half-unit only upon examination. Students presenting 8b will not be entitled to enroll for credit in Mathematics 1.

8a. **Trigonometry:** Plane and spherical trigonometry, including

the definitions of the six trigonometric functions, proof of important formulas, trigonometric equations and identities, theory of logarithms and use of tables, solution of right and oblique triangles. This course is not recommended for secondary schools unless it can be given under the most favorable conditions. Credit will ordinarily be given for this half-unit only upon examination. Students presenting 8a will not be entitled to enroll for credit in Mathematics 6 or 9.

The work of the first two years in mathematics is definitely recommended for all affiliated high schools and is as follows: first year, algebra through quadratics; second year, plane geometry. The remainder of the mathematics course will vary in different schools, but, unless one-fourth of the time during the last year is given up to review courses closing with a review of arithmetic and algebra, there are good reasons why solid geometry and algebra should be taken in the last year of the high school. Students who take up college algebra without a fresh knowledge of high school algebra are at a great disadvantage. When mathematics must be omitted from any year of the curriculum it is suggested that it may be left out in the third year, and that physics, which is an allied subject, be put in its place.

HISTORY

Not Less Than One Nor More Than Four Units

9. Ancient History: A standard text published since 1899 and at least 200 pages of assigned reading, one-fourth of which should be source material. This unit should be given in the first or the second year of the high school work.

10. Modern History: A standard text published since 1899 and at least 300 pages of assigned reading, one-fourth of which should be source material. Stress may well be laid on English history, if that should not be given as a separate unit. This unit should be given in the second or the third year of the high school.

11. English History: A standard text published since 1899 and at least 300 pages of assigned reading, one-fourth of which should be source material. This unit should not be given by high schools, unless four years of history are given. It belongs in the third year of the high school.

12. American History or American History and Civil Government: The adopted text and at least 350 pages of assigned reading, one-fourth of which should be source material. The origin and development of our government, central and state, should be studied. This course, if credited, must be given in the third or the fourth year of the high school. Oklahoma history may be included.

If but one of the above units can be given, modern history is recommended, although some authorities prefer the ancient history. A

year's course in general history is not credited, unless taken before July 1, 1909.

CIVICS

One-Half Unit

13a Civics: Civil government may be studied apart from American history, and a half-year course may be given in either the first or the last year of the high school. The adopted text with special attention to the government of Oklahoma both state and local.

ECONOMICS

One-Half Unit

13b Economics: A standard text with collateral readings, especially on the economic history of England and the United States. In the selection of texts it is well to avoid large and difficult books intended for college classes.

LATIN

One, Two, Three, or Four Units

14. First Year Latin: The adopted text with careful drill in forms. The Latin should be read aloud with intelligent expression, and translations should be made into idiomatic English.

15 Second Year Latin, Caesar's Gallic War: Four books, or equivalent, with one period a week of prose composition based on Caesar.

16. Third Year Latin, Cicero: Any six orations from the following list, but preferably the first six mentioned: the four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the fourteenth Philippic. The equivalent of at least one period a week in prose composition based on Cicero.

17. Fourth Year Latin, Vergil: The first six books of the Aeneid; Mythology.

"Equivalents may be presented as follows: Second year Latin, Caesar, *Gallic War* and *Civil War* and Nepos, *Lives.* Third year, Cicero, *Orations, Letters*, and *De Senectute* and Sallust, *Catiline* and *Jugurthine War.* Fourth year, Vergil, *Bucolics, Georgics*, and *Aeneid* and Ovid, *Metamorphoses, Fasti,* and *Tristia*". These specifications accord with the recommendations of the Commission on College Entrance Requirements in Latin appointed by the American Philological Association in 1908.

No combination of prose and poetry will be accepted as a unit, unless taken before July 1, 1909.

GREEK

One, Two, or Three Units

18. Introductory Lessons: A careful drill on forms and accents, practice in reading at sight, systematic study of grammar begun, 20 to 30 pages of Anabasis or equivalent.

19. Xenophon's Anabasis: 75 to 120 pages of the Anabasis either alone or with other Attic prose. Continued study of grammar and practice in writing Greek, both based on the study of Books I and II of the Anabasis.

20. Homer (2,500 to 4,000 Lines): e. g.; Iliad I-III (omitting II 494-end), and VI-VIII, Attic prose (33-40 pages), with practice in writing Greek; grammar, practice reading at sight.

GERMAN

One, Two, Three, or Four Units

21. First Year German: Drill in pronunciation and in the rudiments of grammar, the memorizing and frequent repetition of easy colloquial sentences, abundant easy exercises as application of grammar and to cultivate readiness in the reproduction of natural forms of expression. Reading of 50 to 100 pages of easy text. Thoroughness and accuracy are the chief considerations.

22. Second Year German: The reading of two or three suitable texts in the form of easy stories and plays, such as:

1. Storm's *Immensee* or Arnold's *Fritz auf dem Lande.*
2. Seidel, *Weihnachten bei Lebrecht Huehnchen* or Riehl, *Die Werkender Barmherzigkeit.*
3. Kotzebue, *Die Deutschen Kleinstadter* (as a play).

Practice in translation of English into German, also easy dictation and composition exercises.

23. Third Year German: A thorough and systematic review of the fundamental principles of grammar in connection with suitable practice in composition. A text-book such as Pope's or Bernhardt's German Composition should be used for this purpose. The reading of 300 to 350 pages of moderately difficult prose of which the following are good examples:

1. Freytag's *Die Journalisten,* or Lessing's *Minna von Barnhelm.*
2. Schiller's *Wilhelm Tell* or Goethe's *Hermann und Dorothea.*
3. Freytag, *Aus dem Jahrhundert des Grossen Krieges,* or Treitschke's, *Das Deutsche Ordensland Preussen.*

In addition selections from poems of Uhland, Heine, Schiller, Goethe, etc.

25. Fourth Year German: The work of the fourth year should comprise the reading of about five hundred pages of good literature in

prose and poetry, reference reading upon the lives and works of the great writers studied, the writing in German of numerous short themes upon assigned subjects, independent translation of English into German.

FRENCH

One, Two, Three, or Four Units

25. First Year French: Drill in pronunciation and the rudiments of grammar; abundant easy exercises; the translation of from 100 to 175 pages of graduated texts with constant practice in writing French from dictation, and in translating into French easy variations of the sentences read.

26. Second Year French: The translation of from 250 to 400 pages of easy modern prose with constant practice as in the previous year.

27. Third Year French: The work of the third year should comprise the translation of from 400 to 600 pages of ordinary French, a portion to be in dramatic form; constant practice as in previous years.

28. Fourth Year French: During the fourth year the work should comprise the reading of from 600 to 1,000 pages of standard French, classical and modern, the writing of numerous short themes in French, and the study of syntax.

SPANISH

One or Two Units

29. First Year Spanish: Careful drill upon pronunciation and the rudiments of grammar with numerous exercises, the reading of from 100 to 175 pages of graduated texts, with translation into Spanish of easy variations of the sentences read; writing Spanish from dictation.

30. Second Year Spanish: The reading of from 250 to 400 pages of modern prose with constant practice as in the previous year.

PHYSICS

One Unit

31. Physics: The work should consist of three closely related parts, namely: class work, lecture demonstration work, and individual laboratory work. Three periods a week should be devoted to class and lecture demonstration work, and in addition to this, at least two double periods a week must be devoted to individual laboratory work. Thirty to fifty experiments selected from a standard laboratory manual should be performed.

Physics should be given in the third or in the fourth year of the high school. If chemistry is given, physics should cover the third

year and chemistry the fourth. When physics is given in the third year, solid geometry and algebra from quadratics may well be put off until the fourth year, as physics must be to some extent a mathematical course. The training given by a course in plane geometry is almost necessary for satisfactory work in physics.

CHEMISTRY

One Unit

32. Chemistry: The work in chemistry should consist of three parts, namely: class work, lecture demonstration work, and individual laboratory work. Three periods a week should be devoted to lecture and recitation work, and in addition to this at least two double periods a week must be spent by the students in actual laboratory work. It is desirable that elementary physics be thoroughly understood before chemistry is taken up. Chemistry if given should be a fourth-year subject. This course is not recommended for secondary schools.

PHYSICAL GEOGRAPHY

One-Half or One Unit

33. Physical Geography: This course should cover a study of the physical forces that are in operation on the earth's surface; physiographic forms, earth structure, work of streams, glaciers, oceans, etc. Two-fifths of the time should be spent in laboratory work.

BOTANY

One-Half or One Unit

34. Botany: The course should cover a study of the life histories of types from the main groups of plants. Three-fifths of the time should be devoted to individual laboratory work, and the remainder to recitations and discussions. Field excursions should be made, and careful notes and drawings should be required in connection with the laboratory.

Where it is not possible to give a full year's work in botany, free-hand drawing, physical geography, or zoology may be combined with the botany, so as to make one unit.

ZOOLOGY AND PHYSIOLOGY

One-Half or One Unit

35 Zoology: The course in zoology should cover a study of the classifications, general structure, and life histories of types from the main groups of animals. Three-fifths of the time should be devoted to actual laboratory work, and the remainder to recitations and discus-

sions. Field excursions should be made, and careful notes and drawings should be required in connection with the laboratory work.

35a. Zoology: "Where but half a year's work is offered in zoology the teacher should select the groups to be studied. Since the groups do not require equal periods of time, the number to be studied in a half year's course will depend on the selections. It should not be less than five."

35b. Physiology: This course should be taught by specially prepared instructors in physiology and by laboratory methods. Two-fifths of the time should be spent in laboratory work and the remainder in recitations. Neat and correct drawings, properly labeled, and intelligible notes should be made of each study, lecture-demonstration, or experiment.

"Where but half a year's work is offered in zoology, and where at the same time human physiology is taught, the zoology should be followed at once by the physiology or the two subjects combined into a single course. It is believed that time will be saved by this arrangement and that interest will be added to both subjects."

Physiology given before the middle of the tenth grade will be credited only upon examination.

OCCUPATIONAL SUBJECTS

Three units may be presented from the work described hereafter in manual training, agriculture, and commercial subjects. Since but fifteen units are required for admission, one-sixteenth of the pupil's time is left free for devotion to subjects for which entrance credit is not given. A pupil preparing for the university may therefore take of our units of this work in the high school.

The minimum time given per year in manual training in order to count as a unit should not be less than 240 hours of 60 minutes. No superior limit is given, but additional time spent in any year will not receive additional credit. Credit will be given for occupational courses only upon examination unless the work was done under proper conditions in an affiliated school.

36. Shop Work: Simple operations in joinery, training in the care and use of tools with the development of a reasonable degree of skill. A portion of the time may be given to wood turning or pattern making.

37a. Free-Hand Drawing: Sketching from objects, casts, etc., with pencil or charcoal. This course should develop originality and an appreciable degree of accuracy in observation and representation. This one-half unit is urgently recommended for engineering students.

37b. Free-Hand Drawing: If sufficient time is given, and if the course is extended to include pen and ink sketching, free-hand

perspective, or similar work, an additional half-unit of free-hand drawing may be presented.

37c. Mechanical Drawing: The use and care of drawing instruments. Practice plates and the solution of selected geometrical problems. Special attention should be paid to the quality of the work.

The same pupil may not present 37b and 37c, but either may be presented with 37a.

38. Domestic Science: A standard laboratory course in the household arts. Plain sewing, including the use and care of sewing machines, the nature and uses of cotton, linen, and woolen goods, patterns and measurements. Cooking, including the classification and cost of foods, diets, water supply and the disposal of waste. It is not to be inferred that all the topics mentioned must be discussed or demonstrated. One-half or one unit may be presented.

40a. Commercial Law: The legal principles governing business relations. Text, supplemented by some study of cases by way of illustration, discussions, and practice in drawing legal papers. One-half unit.

40b. Commercial Geography: The factors in commerce, followed by a detailed study of the United States and other leading commercial nations with reference to resources, industries, etc. This half-unit should be preceded by physical geography if possible.

41a Arithmetic: Writing numbers from dictation; fundamental operations; much oral and written drill in fractions; practical measurements; percentage; applications of percentage to profit and loss, commissions, taxation, fire insurance, life insurance, trade discounts, commercial paper, interest and exchange, ratio and proportion, involution and evolution. This unit will not be credited unless taken after the student has completed a unit of algebra and a unit of plane geometry.

41b Book-Keeping: The technical business subjects, especially book-keeping and stenography, are vocational in purpose and must therefore be taught with view to a practical mastery. This fact should suggest and control the method. For example, no credit should be allowed unless the work is done neatly, accurately, and at a satisfactory rate of speed.

Definitions of double entry terms, with rules for debit and credit, kinds and uses of books. Conduct of a set including the journal, cash book, sales book ledger, check book, bank pass book and trial balance book: closing of books. Single entry set: changing from single to double entry. One half-unit.

42 Shorthand and Typewriting: No credit should be given

for either shorthand or typewriting if taken alone. The "touch" method is strongly recommended in typewriting.

The object is first, accuracy, and second, speed in dictation and transcribing notes. Equally essential are correct spelling, capitalization, punctuation and paragraphing.

No credit will be given unless the following speed is attained: 75 words per minute in dictation and 25 words per minute on the machine.

Thorough training should also be given in care of the machine and in methods of copying, manifolding and filing papers. One unit.

ACCREDITED SCHOOLS

List of Affiliated Schools Accredited for 15 or more Units

Name	Superintendent	Principal
Altus	W. H. Decker	Bert McClelland
Anadarko	W. H. Bishop	Alvin Good
Arapaho	J. R. Campbell	J. C. Brower
Ardmore	C. W. Richards	Wm. A. Erdman
Atoka	J. P. Battenberg	Lulu Johnson
Bartlesville	F. W. Wenner	S. J. Brainerd
Beaver	John E. Swaim	Lena Wright
Blackwell	A. J. Lovett	F. L. Bacon
Chandler	Clen E. Tope	Etta DeLay
Checotah	G. W. Gable	G. C. Rorie
Chelsea	E. A. Hillhouse	Sarah R. Clarke
Cherokee	T. E. Bartlett	Roy Carder
Chickasha	W. F. Ramey	Edgar Cowan
Clinton	W. S. Bryan	Minnie Castleberry
Coalgate	A. V. Hamilton	J. E. Maninx
Dewey	T. H. Robinson	----------
Duncan	Nim Hill	----------
Elk City	J. C. Tucker	W. L. Kendall
El Reno	F. N. Howell	C. H. Thuermer
Enid	T. W. Butcher	W. A. Bailey
Fairview	W. H. Shumate	Maude C. Shumate
Frederick	H. G. Faust	E. B. Nelms
Granite	J. A. McLauchlin	L. P. Listen
Guymon	Phillip Power	J. H. Carr
Hennessey	G. D. Moss	A. I. Moore
Hobart	R. M. Caldwell	A. H. Burris
Holdenville	H. R. Nicolas	A. M. Cockrell
Hugo	H. G. Bennett	W. S. Holloway
Kingfisher	E. S. McCabe	Laura Ghering
Lawton	T. B. Rybolt	H. A. Carroll
Lexington	N. H. Edwards	Mabel Thacker

Name	Superintendent	Principal
L. C. H. S. (Guthrie)		Geo. Holter
MAclester	C. N. Peak	R. L. McPheron
Mangum	A. W. Duff	J. G. Ward
Medford	J. O. Allen	Effie M. Renshaw
Miami	M. R. Floyd	F. D. Cary
Muskogee	E. S. Monroe	L. E. Weatherwax
Newkirk	E. B. Wood	----------
Norman	A. R. Wolfe	M. Montgomery
Nowata	P. H. Walter	W. S. Hamilton
Okemah	D. F. S. Caulan	----------
Oklahoma City	W. A. Brandenburg	J. G. Masters
Okmulgee	N. O. Hopkins	C. P. Blackwell
Pauls Valley	M. H. Duncan	A. L. Nowlin
Perry	A. C. Farley	R. R. Robinson
Pond Creek	J. P. Cowan	H. A. Berlin
Poteau	J. A. McKelvey	Edward Davis
Pryor	J. G. Mitchell	R. A. Wilkerson
Purcell	A. J. Mauldin	Lloyd Maxwell
Ramona	J. F. Johnston	A. A. Powell
Ryan	J. H. Hayes	H. A. Warner
Sallisaw	Alfred Livingston	----------
Sapulpa	A. C. Cohagan	C. H. Woodruff
Sayre	A. R. Harris	Gladdie Goode
Stilwell	Lula Jones	Jessie M. Guilliams
Shawnee	Scott Glen	C. B. Gwynn
Snyder	E. H. Homberger	Myrtle Ellenberger
Stigler	M. L. Cotton	Edna Crudup
Tecumseh	Harry F. Hooper	Eva M. Fosbury
Thomas	K. W. Harris	C. L. Honnold
U. P. S. (Tonkawa)	Lynn Glover, Pres.	----------
U. P. S (Claremore)	J. H. Bayes, Pres.	----------
Tulsa	J. A. Koontz	F. J. Katz
Vinita	W. G. Masterson	J. E. Sullivan
Wagoner	G. W. Austin	S. S. Waters
Wapanucka	John G. March	T. D. D. Quaid
Watonga	J. O. Shaw	J. D. Dail
Waurika	C. D. Storms	----------
Weleetka	----------	G. W. Hilderbrandt
Wilburton	Silas Laws	Emma Irminger
Woodward	Geo. C. Wakefield	E. Berrigan

List of Affiliated Schools Accredited for 12 to 14 1-2 Units

Afton	Virgil H. Durham	Jeannette Reed

Name	Superintendent	Principal
Carmen	D. B. Horton	H. E. Huston
Cleveland	Harold J. Janson	V. I. Correll
Custer	L. J. Knack	Bessie Reichman
Durant	W. H Echols	I. S. Hinshaw
Gage	Will T. Henderson	Anna L. Listrom
Grandfield	O. M. McCracken	J. N. Huff
Haileyville	C. P. Hicks	Leila Trumbull
Hartshorne	Morgan T. Craft	H. O. Williams
McLoud	W. W. Isle	----------
Oktaha	S. W. Witman	Mrs. S. W. Witman
Randlett	Lawrence G. Lay	----------
Seminole	L. L. Sturgeon	Lucy Pepoon
Texhoma	J. L. Kinsey	Ruth I. Bigford
Waukomis	Angus L. Shattuck	Emma Shattuck
Wetumka	J. R. Richards	----------

List of Affiliated Schools Accredited for 8 to 11 1-2 Units

Britton	S. R. Jones	----------
Byars	W. E. Martin	----------
Devol	Rufus A. Mock	----------
Erick	J. D. Hodges	Abbie Horn
Geary	W. H. Hill	M. L. Wardell
Gotebo	Frank Charlton	Opal Nelson
Haskell	J. B. Monical	----------
Heavener	Denton R. Woods	----------
Ingersoll	A. W. Fanning	----------
Porum	Frank Harper	Adda Powers
Red Oak	C. E. Fair	----------
Spiro	A. E. Riling	S. E. Kirk
Waynoka	D. R. Johnson	Mrs. D. R. Johnson
Welch	J. B. Rogers	Josephine Barker
Wister	J. E. Garrett	----------
Yukon	E. E. Weir	Ophelia E. Overstreet
Shattuck	F. P. Reed	F. W. Whinnery

List of Affiliated Schools Accredited for 4 to 7 1-2 Units

Arnett	R. L. Seaton	----------
Boynton	J. T. Stripling	----------
Braggs	Owen Phillips	----------
Calvin	Robert Bradley	----------
Capron	R. L. Clifton	----------
Council Hill	M. M. Anderson	----------

Name	Superintendent	Principal
Delaware	W. E. Hollis	----------
Eufaula	L. P. Evans	R. J. Mullins
Ft. Gibson	T. M. Hurt	----------
Howe	J. A. Skinner	----------
Krebs	T. A. Craighead	----------
Lehigh	J. R. Hendrix	----------
Lenapah	Lincoln Edwards	----------
Mooreland	R. M. Hood	----------
Quinlaw	Lena Logue	----------
Tupelo	C. L. Whitley	----------
Wainright	J. T. Thompson	----------
Webbers Falls	J. W. McCampbell	----------

THE GRADUATE SCHOOL

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

ALBERT HEALD VANVLEET, Ph. D.
Dean of the Graduate School, Professor of Biology.

*EDWIN DEBARR, Ph. D.
Professor of Chemistry, Director of the School of Chemical Engineering, Vice-President of the University.

JAMES SHANNON BUCHANAN, B. S.
Professor of History, Dean of the College of Arts and Sciences.

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Professor of Greek and Classical Archaeology.

ROY GITTINGER, A. M.
Professor of English History.

JAMES WELLINGS STURGIS, Ph. D.
Professor of Latin.

SAMUEL WATSON REAVES, A. M.
Professor of Mathematics.

FREDRIK HOLMBERG, B. M.
Professor of the Theory of Music, Dean of the School of Fine Arts.

SARDIS ROY HADSELL, A. M.
Professor of the English Language.

GUY YANDELL WILLIAMS, M. A.
Associate Professor of Chemistry.

HENRY HIGGINS LANE, M. A.
Professor of Zoology.

JEROME DOWD, M. A.
Professor of Sociology and Economics.

THEODORE HAMPTON BREWER, M. A.
Professor of English Literature.

LUCILE DORA, M. A.
Professor of Romance Languages and Literatures.

LOUIS ALVIN TURLEY, A. M.
Professor of Histology and Pathology

*On leave of absence.

Monroe Allen Floyd, B. S., A. B.
Associate Professor of History.

John Henry Voss, M. A.
Associate Professor of German.

Charles Henry Taylor, M. S.
Professor of Geology, Director of the School of Mining Geology.

William Peter Haseman, Ph. D.
Professor of Physics.

Stephen Melvil Barrett, A. M.
Professor of the Science of Teaching.

John Alley, A. B.
Professor of Political Science.

Roy Temple House, A. M.
Professor of the Germanic Languages and Literatures.

Frederick Charles Kent, B. S.
Associate Professor of Mathematics.

Irving Perrine, Ph. D.
Professor of Stratigraphic Geology and Paleontology.

Gayfree Ellison, B. S., M. D.
Professor of Bacteriology.

Warren Waverley Phelan, Ph. D.
Professor of Psychology, Director of the School of Teaching.

THE GRADUATE SCHOOL

The University of Oklahoma offers graduate instruction to those who desire a more thorough preparation than is offered by the various undergraduate schools and colleges.

The legislative faculty of the Graduate School is composed of the members of the faculties, with the rank of professor and associate professor, offering graduate work.

ADMISSION

Students holding the bachelor's degree from this university or from some other acceptable institution are admitted to the Graduate School. Other persons suitably qualified may be admitted upon such conditions as may be imposed in each case by the committee on graduate studies.

Candidates for admission make formal application, on the proper blanks, to the Dean of the Graduate School, submitting their diplomas or other credentials. Candidates from other institutions must present testimonials as to character and scholarship.

Three classes of students are admitted: (1) those not candidates for an advanced degree; (2) candidates for an advanced degree who are deficient in undergraduate preparation; and (3) those who are prepared to select at once their major and minor subjects and become candidates for a degree at the beginning of their graduate work.

Students, not candidates for an advanced degree, who are graduates from this university, are given permission to register by the dean. Students from other institutions present their credentials to the dean who, on approval of the committee on graduate studies, grants them permission to register.

Candidates for an advanced degree, who are deficient in undergraduate preparation, will have their work evaluated by the committee on graduate studies. When such deficiency has been made up the dean will grant the applicant permission to register and become a candidate for the proposed degree.

Candidates for an advanced degree whose proficiency is certified to by the committee on graduate studies are permitted to register by the dean.

Students from this university who have completed the undergrad-

uate course and have been properly recommended for graduation may register in the Graduate School even though the degree is not conferred until the close of the school year. Students from this university, who at the beginning of any semester are within three hours of graduation, may count that semester as the first of the two semesters required for residence for the master's degree. Students who are within six hours of graduation at the beginning of any semester may, on approval of the committee on graduate studies, select from the courses offered for graduate work enough to make a total of not more than 16 hours, and this work may receive such credit towards an advanced degree as the committee on graduate studies may determine.

At least one year of resident graduate work is required of any student who seeks an advanced degree, except as provided under "Summer Session."

ADVISERS

The Dean of the Graduate School is the official adviser of all students of the school. The professor under whom the student elects his major work, however, becomes his special adviser and chairman of his special committee, which consists of the professors under whom he does his work. The special committee outlines and has general oversight of the student's work, subject to the rules of the Graduate School and the approval of the dean. Enrollment cards must be signed by the major professor and the dean.

DEGREES

The University of Oklahoma offers but one advanced degree, Master of Arts.

Master of Arts

Candidates who complete at least one year of resident graduate work, present an acceptable thesis, and pass all required examinations will be recommended by the faculty of the Graduate School for the master's degree.

A total of not less than thirty hours credit must be earned with a grade of A or B. With the approval of the committee on graduate studies, work to the extent of fifteen hours may be accepted from some other institution. The last fifteen hours, however, must be done in the University of Oklahoma.

Candidates shall chose a major study and one or two minor studies. To each minor shall be devoted approximately one-half of the work devoted to the major study. The major and one minor may fall within the same department, but must be taken under different in-

structors. If two minors are selected, one must be chosen from another department.

Members of the legislative faculty of the Graduate School may not become candidates for a higher degree.

No work done in the major subjects may count towards the master's degree until the departmental requirements as to previous work have been complied with which shall in no case be less than eleven hours.

At the end of each semester, candidates shall pass such examinations or make such written reports upon the work as far as completed as the professors in charge may require.

A final examination, written or oral or both, is taken in each course on completion of the same. The examination is conducted by the candidate's major and minor professors, and the grade is reported to the registrar.

The subject of the thesis, approved by the student's major professor, must be chosen and reported to the dean not later than four weeks after the student becomes a candidate for this degree. The completed thesis, approved by the student's major professor, must be presented to the dean at least ten days before the commencement at which the applicant expects to take his degree. On recommendation of the major professor, the dean may excuse a student from presenting a thesis.

After final approval and before receiving his degree, the candidate must deposit one original and one duplicate typewritten copy of his thesis with the Librarian of the University. The thesis shall be paged and bound according to a prescribed form which may be seen at the university library.

SUMMER SESSION

With the consent of the department concerned, a person who has been fully admitted to the Graduate School may carry on work during the Summer Session which may count towards the master's degree.

Candidates for the master's degree may present themselves for examination after the completion of not fewer than twenty-four hours in residence, supplemented by enough work in absentia to complete the requirements for the degree.

Eight hours constitute full work for a Summer Session. Under no circumstances may a person receive credit for more than nine hours during one Summer Session.

The usual requirements as to choice of studies, and thesis will be enforced.

It should be noted that in many departments no graduate work is offered during the Summer Session. Prospective students should con-

sult carefully the announcement of the Summer Session as to courses offered.

WORK IN ABSENTIA

Work in absentia to an amount not exceeding six hours credit is allowed under the following conditions:

Graduates of the university who at the time of graduation enroll in the Graduate School with the intention of completing the work for a master's degree wholly or partly by attendance upon the Summer Sessions will be allowed, with the approval of the dean and the major professor, to take work in absentia during the year preceding a summer session in residence.

Candidates for a master's degree not graduates of this university will be allowed, with the approval of the dean and the major professor, to take in absentia work during the year following a summer session in residence.

Credit for work in absentia will be granted only in connection with work taken later in residence. All in absentia work must therefore be completed prior to enrollment for the final summer session in residence.

FELLOWSHIPS AND SCHOLARSHIPS

A limited number of fellowships, paying $225.00 a year, and of scholarships paying $180.00 a year, will be available in the Graduate School. The departments in which these fellowships and scholarships are available will vary from time to time in accordance with the needs of the university. Fellows and scholars will be required to give approximately one-fourth of their time to teaching or other work in connection with the department. Applications for fellowships and scholarships must be made to the Dean of the Graduate School before the first of April preceding the college year for which the assignment is made.

COURSES FOR GRADUATE WORK

For description of courses, see the corresponding numbers under the several departments of the College of Arts and Sciences.

They are listed here in two groups, those suitable for a minor only, and those that may also count towards a major.

Bacteriology:

Minors, 101, 102, 103.

Botany:

Minors, 101, 102, 103, 104.

Chemistry:

Minors, 121 101, 151, 152.

Majors, 102, 122, 124, 107, 108, 104, 105, 106, 126, 125, 142, 103, 123.

Economics:
Minors, 100, 101.
Majors, 102, 103, 200, 201.

Education:
Minors, 101, 102, 106, 131, 132, 133, 134, 135, 136, 138, 139.
Majors, 103, 105, 107, 109, 110, 111, 112, 201, 202, 203, 204.

English:
Minors, 111, 112, 113, 110.
Majors, 101, 114, 115, 105, 106, 100, 107, 102, 108, 109.

French:
Minors, 100, 101, 102.

Geology:
Majors, 100, 101, 102, 103, 104, 105, 106, 110, 111, 112, 113, 150, 200, 201, 202, 203.

German:
Minors, 105, 107.
Majors, 101, 102, 108, 109, 110, 111, 134.

Greek:
Minors, 100, 101.

History:
Minors, 105.
Majors, 103, 106, 108, 110, 101, 102, 109.

Latin:
Minors, 100, 101, 102, 103, 104.

Mathematics:
Majors, 118, 122, 126, 135, 136, 141, 125, 131.

Pathology:
Minors, 101, 102, 103, 104.

Philosophy:
Minors, 101, 106, 110, 111, 112.
Majors, 102, 103, 104, 105, 107, 108, 109, 113, 114, 115, 201, 202.

Pysics:
Minors, 100, 101, 102, 103, 104, 105, 106, 107, 108.

Political Science:
Minors, 100, 101, 102, 103, 104, 105, 106, 200.

Sociology:
Minors, 100, 101.
Majors, 102, 104, 103, 200, 201.

Theory of Music:
Minors, 108, 109, 110, 112.

Zoology:
Minors, 100, 101, 102, 103, 104, 105.
Majors, 200, 201.

THE COLLEGE OF ARTS AND SCIENCES

FACULTY

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President of the University.

JAMES SHANNON BUCHANAN, B. S.
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Professor of Chemistry, Vice-President of the University, Director of the School of Chemical Engineering.

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Professor of Greek and Classical Archaeology.

ALBERT HEALD VANVLEET, Ph. D.
Professor of Biology, Dean of the Graduate School.

ROY GITTINGER, A. M.
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Professor of English Literature.

LUCILE DORA, M. A.
Professor of the Romance Languages and Literatures.

*On leave of absence.

Louis Alvin Turley, A. M.
Professor of Histology and Pathology.

Monroe Allen Floyd, A. B.
Associate Professor of History.

Daniel Webster Ohern, Ph. D.
Special Lecturer on Oklahoma Geology, Director of the Oklahoma Geological Survey.

John Chester Darling, M. S., M. D.
Physical Director.

John Henry Voss, M. A.
Associate Professor of German.

Charles Henry Taylor, M. S.
Professor of Geology, Director of the School of Mining Geology.

William Peter Haseman, Ph. D.
Professor of Physics.

Errett Rains Newby, B. A.
Secretary, Registrar.

Stephen Melvil Barrett, A. M.
Professor of the Science of Teaching.

John Alley, A. B.
Professor of Political Science.

Roy Temple House, A. M.
Professor of the Germanic Languages and Literatures.

Frederick Charles Kent, B. S.
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Irving Perrine, Ph. D.
Professor of Stratigraphic Geology and Paleontology.

Gayfree Ellison, B. S., M. D.
Professor of Bacteriology.

Andrew Clarkson Parsons, A. B.
Professor of Secondary Education, High School Inspector.

Warren Waverley Phelan, Ph. D.
Professor of Psychology, Director of the School of Teaching.

Leonard Blaine Nice, Ph. D.
Professor of Physiology.

LLOYD BURGESS CURTIS, B. S.
Assistant Professor of Spanish.

†ROBERT PEYTON CALVERT, M. A., M. S.
Assistant Professor of Chemistry.

LOUISA BROOKE, B. A.
Assistant Professor of English, Adviser of Women.

ARTHUR BARTO ADAMS, A. B.
Assistant Professor of Economics.

BURTON FRANK TANNER, B. L.
Assistant Professor of Public Speaking.

CHARLES EARNEST HAMNER M. D.
Assistant Professor of Bacteriology.

PATRICIO GIMENO, B. A.
Instructor in Italian.

LAURENCE NELSON MORGAN, B. A.
Instructor in English.

EARL SELLERS PORTER, A. M.
Instructor in Chemistry.

KENNETH POTTER MONROE, B. S.
Instructor in Chemistry.

RACHEL REVELL, Ph. B.
Instructor in Physical Training.

CHESTER WELLS, A. B.
Instructor in English and Journalism.

† On leave of absence.

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is the center of the University of Oklahoma out of which the professional schools have grown and around which they are grouped. A large part of its instruction is foundational for the best work in these professional schools, and there is a growing tendency to require one or more years of general college training for admission to a professional school.

The College of Arts and Sciences affords many of its students an opportunity to test themselves in various fields of scholastic endeavor pending the time when they shall discover what the dominant interests of their lives are to be. For many others the college presents subjects or groups of subjects directly related to the student's chosen line of professional endeavor, for example, in teaching, in journalism, in commerce and industry, and in various lines of scientific work.

ADMISSION

The requirements for admission to the College of Arts and Sciences are explained under the head of "Admission."

REGULAR PLAN OF WORK

To secure the bachelor's degree from the College of Arts and Sciences the candidate must complete 124 hours of work in accordance with the plan hereinafter set forth.

Every hour for which credit is given is understood to represent for the average student approximately three hours of work a week through one semester. Thus, in lecture or recitation work, one hour is allowed for the lecture or recitation and two hours for preparation, reading, or study. Where the time is wholly occupied by drawing, or laboratory, or field work, three hours a week for one semester are expected of the student for each hour that counts toward graduation.

The completion of the 124 hours thus defined requires four years. Of these the first or freshman year, is spent in general or introductory work, comprising courses in several departments and in widely separated subjects. During this year the student's choice of studies is subject to the approval of the dean of the college. During the second, third, and fourth, or sophomore, junior and senior years, the student's

choice of studies is subject to the approval of a major professor, and he may confine the work within certain comparatively narrow limits. The plan of the entire four years' work is known as the "major elective system". It consists of four parts: I, prescribed freshmen work; II, major study; III, group electives; and IV, free electives.

I. Prescribed Work

(a) 1. English 1, 2 ..... 8 hours.
(b) 2. Natural Science ..... 8 hours.
Botany 1, 2; Chemistry, 1; 2; Geology 1, 2;
Physics 1, 2; Zoology 1, 2).
(c) 3. One Ancient Language 8 (8 hours each)
(d) 4. One Modern Language 8 (from two of) ..... 16 hours.
(e) 5. Mathematics 8 (these three)
(f) 6. History 1 ..... 4 hours.
(g) 7. Physical Training ..... 2 hours.

Exemptions

Students who present a sufficient amount of entrance credits in the subjects listed under (c), (d), (e) may be relieved wholly or in part from these requirements. The exemptions are as follows:

(c) Four units of Latin will relieve from 8 hours Ancient Language.
Three units of Latin will relieve from 4 hours Ancient Language.

(d) Two units of One Modern Language will relieve from 8 hours Modern Language.
One unit of One Modern Language will relieve from 4 hours Language.

The units in modern language must be in addition to the two units of foreign language required for admission.

(e) Three and one-half units of Mathematics will relieve from 8 hours Mathematics.
Three units of Mathematics will relieve from 4 hours Mathematics.

II. Major and Minor Subjects

At the beginning of his sophomore year each student must choose a major study. The major may be chosen from any department offering sufficient work. The head of the department in which the major lies becomes the student's official adviser and has general oversight of his work throughout the remainder of his course. The student wishing to major in a department must make written application on a blank provided by the registrar, to the head of the department. This application when approved by the dean of the college and the head

of the department, must be filed with the registrar. The work in the major study must consist of:

(a) At least 20 hours in major department, accepted for major credit.

(b) At least 12 hours in a closely related subject within the same group as the major subject.

The major professors may require a thesis to be written under the following conditions:

At the beginning of his senior year, i. e., at the first enrollment after he has completed ninety hours, the student must file with the registrar a subject for a thesis, approved by his advisory professor, upon some phase of his major work. The finished thesis must be submitted to the professor in charge not later than the first Monday in May, and two copies of the thesis, bound in an acceptable manner and according to the required specifications, shall be filed with the librarian. Four hours' credit is given for this thesis.

III. Group Electives

The major student must complete at least 8 hours in a department in each of the two groups that do not contain the major study.

The groups are as follows:

Group I. The Languages: English, Greek, Latin, German, French, Spanish, Italian.

Group II. Mathematics and Natural Sciences: Anatomy, bacteriology, botany, chemistry, geology, mathematics, pathology, physics, physiology, zoology.

Group III. The Social Sciences: Economics. education, history, philosophy, political science, sociology.

IV. Free Electives

In addition to the requirements of prescribed courses, major and minor studies, and group electives, the student, subject to the approval of his adviser, shall choose enough other courses to bring the total number of hours up to 124, but not more than a total of 40 hours in any department shall be counted toward a degree.

STUDENTS FROM OTHER COLLEGES AND UNIVERSITIES

Students from other schools who receive advanced credits for 90 hours and are unable to choose a major will be under the control of the dean of the college. Such students will satisfy all the requirements stated in Sections I, II, and IV, under "Regular Plan of Work," and will receive the degree of Bachelor of Arts (B. A.).

ELECTIVES FROM OTHER SCHOOLS IN THE UNIVERSITY

A student may elect and count toward the Bachelor of Arts degree

subjects given in any one of the other colleges and schools of the university as follows:

College of Engineering: Not more than 20 hours elected from the following courses: Mechanical Drawing 1, 2, 3; Civil Engineering 1, 2, 3, 53; Mechanics 51, 52, 53, 54, 55; Mechanical Engineering 1, 4; Electrical Engineering 51, 52, 53, 54, 64, 65, 78.

School of Fine Arts: Courses in the history and theory of music and the history of art, the total credit not to exceed 27 hours, of which 21 hours may be in music and 6 hours in art.

School of Law: A student who has 92 hours credit may under certain conditions elect from the subjects offered in the School of Law not to exceed 26 hours.

School of Medicine: Students who have completed as many as 60 academic hours in the College of Arts and Sciences and who can satisfy the entrance requirements may enter the School of Medicine; and on completion of the first two years' work will be recommended for the degree of Bachelor of Science (B. S.) in Medicine in the College of Arts and Sciences. Subjects given in the School of Medicine will not be counted in making up the 60 hours required in the College of Arts and Sciences.

In addition to satisfying the entrance requirements of the College of Arts and Sciences, the student must complete the prescribed work, the group electives** and the subjects prescribed for admission to the School of Medicine.

The following outline of courses will comply with these requirements:

First Year

First Semester		Second Semester	
English 1	4	English 2	4
Chemistry 1	4	Chemistry 2	4
Modern Language	4	Modern Language	4
Botany 1	4	Zoology 2	4
Physical Training	1	Physical Training	1
	17		17

Second Year

Physics 1	4	Physics 2	4
History 1	4	Physiology 1	4
*Mathematics or Ancient Language	4	Mathematics or Ancient Language	4
General Psychology	4	Experimental Psychology	4
Physical Training	1	Physical Training	1
	17		17

**Under special conditions the student may be excused from completing the group electives by the Dean of the College of Arts and Sciences.

*Students offering four units of Latin or three and one-half units

of mathematics for admission may substitute modern language or other subjects.

For the purpose of enrollment the deans of the two faculties concerned shall be joint advisers of such students.

FIELD WORK

At the discretion of the head of the department, credit not to exceed one hour for each two weeks spent in the field may be given in the departments of botany, geology, and zoology, provided the student enrolls for work which shall be outlined and carried on under suitable departmental direction.

SCHOOLS

In addition to the general elective courses, the College of Arts and Sciences includes three schools, namely: The School of Education, the School of Journalism, and the School of Commerce and Industry. An outline of the work done in each of these schools is given below:

SCHOOL OF COMMERCE AND INDUSTRY

The School of Commerce and Industry is organized within the College of Arts and Sciences. Its purpose is to train students for a variety of commercial and industrial vocations. The courses offered aim to give a practical knowledge of business correspondence, business forms and documents, accounting (applied to private and governmental affairs), auditing, salesmanship, advertising, credits and collections, organization and management of business, partnerships and corporations, the principles and practices of banking and insurance, the value of the mineral and vegetable resources of the world, the processes of developing them, and the methods of marketing, manufacturing and transporting commercial products.

Admission: Students who wish to enter the School of Commerce and Industry must have completed two years' work in the College of Arts and Sciences. This work should include the prescribed courses, a major subject, a minor subject and the group electives as specified under the College of Arts and Sciences. The major subject, the minor subject and the group electives should be commenced in the sophomore year but may be completed after admission to the School of Commerce and Industry. The major subject should be economics.

Applicants twenty-one years of age or over, not candidates for a degree, may be admitted as unclassified students to such work as they are prepared to take.

The following outline of courses is recommended for the first two years:

First Year

First Semester		Second Semester	
English I	4	English 2	4
Chemistry I	4	Chemistry 2	4
Mathematics 5 or Ancient Languages	4	Mathematics 9 or Ancient Language	4
History I	4	History 10	4
Phy. Training	1	Phy. Training	1
	17		17

Second Year

Economics 1	4	Economics 5	2
Sociology 1	4	Sociology 2	4
General Psychology	4	Geology 3 Economic Geology	4
Modern Language	4	Modern Language	4
		History 54	2
Physical Training	1	Physical Training	1
	17		17

Requirements for Graduation: Candidates for a degree in the School of Commerce and Industry will be required to complete the major and the minor subjects previously selected, to fulfill the group requirements, to take such courses in economics, political science and sociology as the director of the School of Commerce and Industry may approve, and in all other respects to comply with the requirements for graduation from the College of Arts and Sciences.

These requirements are met by the following outline of subjects.

Third Year

Econ. 4 Money & Banking	4	Econ. 6 Labor Prob.	4
Philosophy 1 Gen. Psych.	4	Econ. 102 Insurance	2
Econ. 8 Business Adm.	2	Econ. 9 Bus. Adm.	2
Econ. 140 Rural Economics	2	Pol. Science 105	4
Modern Language	4	Modern Language	4
	16		16

Fourth Year

First Semester		Second Semester	
Soc. 102 Social Evolution	4	Econ. 5. Public Finance	4
Econ. 100 Industrial Comb.	4	Econ. 103 Statistics	2
Econ. 101 Transportation	2	Econ. 201. Econ. Seminary	4
Econ. 200 Econ. Seminary	4	Pol. Science 107 Com. Law	2
Botany 5 General Forestry	2	Botany 6. Ind. Botany	4
	16		16

SCHOOL OF EDUCATION

The School of Education is organized within the College of Arts and Sciences. Its purpose is to select and organize work done in the various departments of the university in such a way as to be most helpful to prospective teachers. The aim will be to fit persons for positions as high school teachers or principals, as teachers or supervisors of special subjects, as superintendents of city schools, and as instructors in normal schools and colleges.

Admission: Students who wish to enter the School of Education must have completed two years' work in the College of Arts and Sciences. This work should include the prescribed courses, a major subject, a minor subject and the group electives as specified under the College of Arts and Sciences. The major subject, the minor subject and the group electives should be commenced in the sophomore year but may be completed after admission to the School of Education. General psychology and educational psychology should be included in the electives of the sophomore year.

Applicants twenty-one years of age or over, not candidates for a degree, may be admitted as unclassified students to such work as they are prepared to take.

Requirements for Graduation: Candidates for a degree in the School of Education will be required to complete the major and the minor subjects previously selected, to fulfill the group requirements, to take at least twenty hours in education and psychology in addition to general psychology and educational psychology, and in all other respects to comply with the requirements for graduation from the College of Arts and Sciences. The professional work in education and psychology must include not less than six hours in history of education, three hours in principles of education and the courses in methods of teaching in the students' major and minor subjects.

Teacher's Certificate

The regulations of the State Board of Education provide that graduates of the School of Teaching who have complied with the special requirements enumerated above and who are recommended by the faculty of the School of Teaching as possessing other qualifications which fit them for teaching, will be granted a teacher's life certificate valid in the public schools of the state.

This certificate may also be granted to persons who receive higher degrees from the university provided that in their undergraduate and graduate work combined they have complied with the professional and academic requirements enumerated above and have done at least 9 hours in education in this university.

Recommendation of Teachers

The Committee on Recommendations collects data concerning graduates and students who desire to teach in Oklahoma for the purpose of assisting superintendents and school boards as far as possible in the proper selection of teachers.

Those interested in securing teachers or positions should address the Committee on Recommendations, Norman, Oklahoma.

SCHOOL OF JOURNALISM

The School of Journalism is organized within the College of Arts and Sciences. Its purpose is to prepare students for the profession of journalism and to permit them, at the same time to obtain a college degree. The work in journalism is not separate and independent, but it is based upon and accompanied by the study of fundamental and allied subjects.

Admission: Students who wish to enter the School of Journalism must have completed two years' work in the College of Arts and Sciences. This work should include the prescribed courses, a major subject, a minor subject and the group electives as specified under the College of Arts and Sciences. The major subject, the minor subject and the group electives should be commenced in the sophomore year, but may be completed after admission to the School of Journalism. Journalism 1, and 2 should be included in the electives of the sophomore year.

Applicants 21 years of age or over, not candidates for a degree, may be admitted as unclassified students for such work as they are prepared to take.

Requirement for Graduation: Candidates for a degree in the School of Journalism will be required to complete the major and the minor subjects previously selected, to fulfill the group requirements, to take 20 hours in journalism in addition to Journalism 1 and 2, and in all other respects to comply with the requirments for graduation from the College of Arts and Sciences.

By this arrangement the student will be given his professional courses in journalism in the sophomore year, and will complete 24 hours of journalism in the period of three years. It is recommended that the free electives be selected from the social science group (economics, education, history, philosophy, political science, sociology) or from the language group (English, Greek, Latin, German, French, Spanish). Students should so direct their work as to grasp in a broad and thorough way a knowledge of social, political and industrial history and conditions, as well as to acquire a knowledge of the literature of others as well as of his own language, at the same time that he is

developing his powers of composition and familiarizing himself with the technical courses in journalism.

Below may be found an outline of the work recommended to students who desire to plan their whole course with a view to the pursuit of journalism as a profession.

First Year

First Semester		Second Semester	
English 1	4	English 2	4
Natural Science, either: Botany 1, or Chemistry 1, or Geology 1, or Physics 1, or Zoology 1.	4	Natural Science, either: Botany 2, or Chemistry 2, or Geology 2, or Physics 2, or Zoology 2.	4
Two courses out of the three groups following:		Two courses out of the three groups following:	
Ancient Languages: Latin or Greek	4	Ancient Languages: Latin, or Greek	4
Modern Languages: French, or German, or Spanish, or Italian	4	Modern Languages: French, or German, or Spanish, or Italian	4
Mathematics	4	Mathematics	4
Physical Training	1	Physical Training	1
	17		17

Second Year

History 1	4	Free Electives	4
Major Subject	4	Major Subject	4
Group Electives	4	Group Electives	4
Public Speaking 1	2	Public Speaking 2	2
Journalism 1	2	Journalism 2	2
Physical Training	1	Physical Training	1
	17		17

Third Year

Major Subject	4	Major Subject	4
Minor Subject	4	Minor Subject	4
Group Electives	4	Group Electives	4
Journalism	4	Journalism	4
	16		16

Fourth Year

Major Subject	4	Major Subject	4
Free Electives	4	Free Electives	8
Journalism	4	Journalism	4
Minor Subject	4		
	16		16

Special Lectures: It will be the policy of the School of Journalism to invite from time to time leading representatives of the press of this and other states to deliver special lectures to the students upon topics of technical and general interest.

During the last semester Mr. Roy E. Stafford, editor-in-chief of the Daily Oklahoman, and Mr. Will Irwin, journalist and story writer, addressed the students in journalism upon subjects of particular interest.

Student Publications: Students in journalism are offered many opportunities for practical experience in journalistic work. In addition to The News Journal and The News Letter, university publications upon which students will be given practice, the journals published by the students themselves, namely, The University Oklahoman, formerly The Umpire, a semi-weekly newspaper ranging in size from four to eight pages, The University Magazine, a monthly literary periodical; and The Sooner, the junior annual, afford excellent opportunity for educational, reportorial, and business practice.

The local correspondence for metropolitan papers gives practice and is usually remunerative to students interested in journalism.

DESCRIPTION OF COURSES

NOTE:—First semester courses are marked a. Second semester courses are marked b. Courses with no letter attached are given both semesters.

ANATOMY

Professor Turley, Professor Lane

Primarily for Undergraduates

Histology I. Normal Histology: See Histology 1, School of Medicine.

Zoology 103b. Vertebrate Embryology: See Zoology.

ASTRONOMY

Professor Reaves, Associate Professor Kent

Primarily for Undergraduates

Astronomy Ib. Elementary Astronomy: From lectures and the text the student will be given a general review of the subject, and the class room work will be supplemented by direct observation of the sky. This is a course for beginners and does not require mathematics. (Given in alternate years. Given in 1914-15).

BACTERIOLOGY

Professor Ellison, Professor Turley, Assistant Professor Hamner

The work in this department is designed to meet four requirements, viz., general culture, a preparation for research, a more detailed knowledge of certain important organisms than is given in the biological courses, and a training in the essentials for the practice of medicine. The courses are open to all students of college rank on the approval of the instructor in charge.

Bacteriology 1 is required of students of medicine.

Bacteriology 1, 2, and 3 may not be counted as major work.

Courses in Pathology may be combined with Bacteriology for major work.

Primarily for Undergraduates

Bacteriology Ia. General Bacteriology; This course includes a detailed study of the more important forms of pathogenic and non-

pathogenic organisms with methods of their isolation from body fluids, water foods, etc., and their relation to human life. Lectures, laboratory, assigned readings, and reports. Muir and Ritchie, and Heinneman. Required of medical students. Lectures and laboratory. Deposit required. Professor Turley. 5 hours.

Bacteriology 2a. Domestic Bacteriology: A study of the principles of bacteriology; the relation of micro-organisms to domestic science; the relation of micro-organisms to disease, and the means of dissemination of disease producing organisms. This course is designed especially for students in domestic science, and for teachers. Lectures, demonstrations, and assigned readings. Professor Ellison. 3 hours.

Bacteriology 3b. Sanitary Bacteriology: A study of the fundamental bacterial activity; the analysis of water, soil, and milk, the testing of disinfectants; a study of septic tanks and the problems of public sanitation. This course is designed especially for students in engineering. Prerequisite, Bacteriology 1. Not open to students in medicine. Laboratory, conferences, and lectures. Deposit required. Professor Ellison. 3 hours.

For Undergraduates and Graduates

Bacteriology 101b. Bacteriological Analysis: Laboratory course with lectures verifying the methods of water, soil, food, air, body-fluids, and sewage analysis, the standardization of disinfectants; and public sanitation. Prerequisite, Bacteriology 1. Deposit required. Professor Ellison. 4 hours.

Bacteriology 102a. Research Bacteriology: The student will pursue a definite line of research on a subject of bacteriology selected after a consultation with the instructor in charge. This course is open to all students of the university who have the necessary prerequisites, and is designed especially for those who take major work in bacteriology. Laboratory, conferences, assigned readings, and reports. Deposit required. Prerequisite, Bacteriology 1. Professor Ellison. 4 hours.

Bacteriology 103b. Research Bacteriology: A continuation of Bacteriology 102. Deposit required. Professor Ellison. 4 hours.

BOTANY

Professor Van Vleet

Botany 1 and Botany 2 are introductory, and satisfy the requirements of Group II. Work may begin with either course, and both courses are general electives for those not using them to satisfy the group. Botany 1 also satisfies the biology requirement in botany for medical students.

Primarily for Undergraduates

Botany 1a. General Botany: Instruction in this course is divided into two periods. The first period extends from the beginning of the semester to the middle of November. The second period includes the remainder of the semester.

Period 1. A general survey of the properties and activities of protoplasm, and of the life processes of plants, including photosynthesis, respiration, transpiration, absorption, conduction, digestion, nutrition and growth. Four recitations and four hours laboratory.

Period 2. A study of representative forms of thallophytes, bryophytes, and pteridophytes; special attention is given to methods of reproduction, the evolution of structure and function, life histories of the forms studied, with a comparative study of the groups. Two recitations and six hours laboratory. 4 hours

Botany 2b. General Botany: A general review of the spermatophytes. Instruction in this course is divided into two periods. The first period extends from the beginning of the semester to the first of April. The second period includes the remainder of the semester.

Period 1. General morphology of the spermatophytes. Special attention is given to reproduction and to the organization and structure of the plant members. Two recitations and six hours laboratory.

Period 2. Ecology, and classification of the local angiosperm flora; In ecology, special attention is given to pollination and seed dispersal, factors of environment, plant formations, and laws of plant migration. In the classification of the angiosperms representative families are studied with drill in the use of the plant keys in the determination of species. Lectures, laboratory, and field excursions. 4 hours.

Botany 3a. Pharmaceutical Botany: A study of the general morphology and histology of plants. For students of Pharmacy only. Lectures, text, and laboratory. 4 hours.

Botany 4b. Pharmaceutical Botany: Instruction in this course is divided into two periods. Period 1 extends from the beginning of the beginning of the semester to the first of April. Period 2 includes the remainder of the semester,

Period 1. A study of powdered drugs, their identification and adulterations. Lectures, text, and laboratory work.

Period 2. Classification of spermatophytes, with special reference to those yielding vegetable drugs. Lectures, laboratory and field work. 4 hours.

Botany 5b. General Forestry: A general presentation of the history, objects, methods and economic importance of forestry. This course is designed especially for students of political economy and others who wish a general knowledge of the subject. Lectures and as-

signed readings. Open to all students of college rank except freshman. 2 hours.

Botany 6a. Industrial Botany: A study of the origin, cultivation, and distribution of plants yielding products of economic value, the nature and use of these products, and the methods by which they are obtained from the plants; especially valuable to students of political economy. Open to juniors and seniors. and to others who have had Botany 1 or 2. Botany 3 may by special permission be counted as graduate work by those who have completed Botany 1 and 2. 4 hours.

For Undergraduates and Graduates

Botany 101a. Physiology and Ecology: A study of the principal physiological processes, viz., Photosynthesis, respiration, transpiration, absorption, conduction, digestion, assimilation, nutrition, and growth; pollination, fertilization, reproduction and seed distribution; response to environment, and the origin of new forms by selection, mutation, hybridization and adaption; grouping, invasion, succession, zonation. Open to students who have completed Botany 1 and 2. Four lectures and four hours laboratory or field work. 4 hours.

Botany 102b. Sysematic Botany: A study of the development and genetic relationships of angiosperms. Opportunity is afforded students to become proficient in in the determination of species and types. Lectures, laboratory, and field work. Open to students who have completed Botany 1 and 2. 4 hours.

Botany 103a. Dendrology: A study of the structure and characteristics of forest trees. Special attention is given to the native trees of Oklahoma. Lectures, laboratory, and field work. Open to students who have completed Botany 1 and 2. 2 hours.

Education 136a. Plant studies and methods. Intended primarily for teachers of botany in Oklahoma High Schools. Discussions and illustrations of methods of teaching botany, directions for laboratory equipment, the collection, and preservation of material for class use. The aim is to present the subjects of nature study and botany as they should be taught in the public schools. 4 hours.

CHEMISTRY

Professor DeBarr, Associate Professor Williams,
Mr. Porter, Mr. Monroe

Primarily for Undergraduates

Chemistry 1 may not be counted as major work.

Chemistry I. General Chemistry: Laboratory and lectures with recitations. Students are required to use the chemicals and

chemical apparatus of the laboratory in this course. Deposit required. Kahlenberg's Chemistry.

This course is given in two sections:

Section I, first semester. Mr. Monroe.

Section II, second semester. Mr. Monroe.

Chemistry 2b. General Chemistry: Laboratory and lectures. Prerequisite, Chemistry 1. Deposit required. Kahlenberg's Chemistry. Mr. Monroe. 4 hours.

Chemistry 3a. General Chemistry: Laboratory and lectures with recitations. Prerequisite, one entrance credit in chemistry. Deposit required. Three lectures, two laboratory periods of three hours each. Associate Professor Williams. 4 hours.

Chemistry 4. Analytical Chemistry: Analysis of unknowns. Laboratory and lectures. Prerequisite, Chemistry 1. and 2. Deposit required. Prescott and Johnson's Qualitative Chemical Analysis.

This course is given in two sections:

Section I, first semester. Associate Professor Williams.

Section II, second semester. Associate Professor Williams.

4 hours.

Chemistry 5. Quantitative Analysis: Volumetric and gravimetric estimations. Lectures and laboratory. Prequisite, Chemistry 4. Deposit required.

This course is given in two sections:

Section I, first semester. Mr. Monroe.

Section II, second semester. Mr. Monroe. 4 hours.

Chemistry 51b. Electro-Chemistry: This course takes up the elements of physical chemistry. Theory of electrolytic dissociation migration of ions, conductivity of solutions, electromotive force, electrolysis, and some of the applications of electro-chemistry. Prerequisite, Chemistry 4, Physics 2, and Mathematics 17. Deposit required. Lectures and recitations. Associate Professor Williams. 4 hours.

Chemistry 61a. Household Chemistry: This course is for women only. Associate Professor Williams. 2 hours.

Chemistry 62b. Household Chemistry: A continuation of 61b Associate Professor Williams. 2 hours.

For Undergraduates and Graduates

Chemistry 101a. Analytical Chemistry: Continuation of Course 4. Deposit required. Mr. Monroe. 4 hours.

Chemistry 102b. Quantitative Analysis: Continuation of Chemistry 5. Deposit required. Mr. Monroe. 4 hours.

Chemistry 103a. Inorganic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4. Deposit required. Associate Professor Williams. 2 hours.

Chemistry 104a. Assaying: This course deals with the estimation of iron, lead, copper, silver, zinc, etc., by the wet way, and of gold and silver by the use of fluxes and other reagents. Prerequisite, Chemistry 5. Deposit required. Mr. Porter. 4 hours.

Chemistry 105b. Water Analysis: A study of sanitary, sewage, and mineral waters. Prerequisite, Chemistry 5. Deposit required. Associate Professor Williams. 4 hours.

Chemistry 106b. Iron, Steel, and Coal Analysis: A study of iron, coal, and steel used in commerce and for domestic purposes. Prerequisite, Chemistry 5. Deposit required. Mr. Porter. 5 hours.

Chemistry 107a. Research Chemistry: This course deals with the gypsum and other mineral products of Oklahoma. Lectures and recitations with laboratory. Prerequisite, Chemistry 5. Deposit, required. Mr. Porter. 5 hours.

Chemistry 108b. Research Chemistry: Prerequisite, Chemistry 5. Deposit required. Mr. Porter. 5 hours.

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisite, Chemistry 4. Perkin and Kipping's Organic Chemistry. Deposit required. Professor DeBarr. 4 hours.

Chemistry 122b. Organic Analysis: Analysis of alkaloids and organic acids. Examination of fat and oils. Prerequisite, Chemistry 121. Deposit required. Prescott's Organic Analysis. Mr. Porter. 4 hours.

Chemistry 123b. Organic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4 and 121, German 2. Deposit required. Mr. Porter. 2 hours.

Chemistry 124b. Physiological Chemistry: Physiological analysis. Lectures and laboratory. Prerequisite, Chemistry 121. Deposit required. Assistant Professor Browne. 5 hours.

Chemistry 125b. Toxicology: A study of poisons. Lectures and laboratory. This course embraces a study of the symptoms, post-mortem appearances, antidotes attendant upon poisoning, and the recovery of the poisons from the various organs of the body. Prerequisite, Chemistry 121. Deposit required. Associate Professor Williams. 2 hours.

Chemistry 126. Chemistry and Composition of Food Products: A study of food-stuffs and their adulteration. Lectures, recitations, and laboratory. Prerequisite, Chemistry 5 and Chemistry 121. Deposit required. A student may take this course more than once and receive credit each time, provided the work is not duplicated. Mr. Porter. 5 hours.

Chemistry 151a. Elementary Physical Chemistry: Lectures and recitations. This course deals with such topics as the gas laws,

kinetic theory and Van der Waal's equation, phase rule, theory of electrolytic dissociation, etc. This course should be taken with or followed by Chemistry 142. Prerequisite, Chemistry 4, 5, and one year of college physics. Walker's Introduction to Physical Chemistry. Associate Professor Williams. 4 hours.

Chemistry 152b. Elementary Physico-Chemical Measurements: A laboratory course that must be taken with or after Chemistry 151. Molecular weight determinations by vapor density, freezing and boiling point methods, study of solutions, solubility, conductivity, transport numbers, etc. Deposit required. Associate Professor Williams. 4 hours.

CLASSICAL ARCHAEOLOGY

Professor Paxton

Classical Archaeology 1, 3, and 4 may be counted as major work in Greek, and must be taken by those majoring in that subject.

Classical Archaeology 1a. The Private Life of the Greeks: Informal lectures and study of text-book on such topics as the family and clan, the name, marriage, marriage ceremonies, religion, childhood, education, slavery, classes in society, food, theatrical and other amusements, will be given and assigned. The course will be illustrated by numerous photographs and lantern slides. Monthly written reports, based on outside reading, are required. No knowledge of Greek is necessary. 2 hours.

Classical Archaeology 2b. The Private Life of the Romans: This course is similar to Classical Archaeology 1. The two courses are intended to be supplementary, but each is complete in itself. No knowledge of Latin is necessary. 2 hours.

Classical Archaeology 3a. A Study of the Mythology of the Greeks and Romans: Fairbanks's Mythology of Greece and Rome will be used as a nucleus, and required readings in Gayley's Classical Myths in English Literature, Frazer's The Golden Bough, Lang's Myth, Ritual, and Religion, or similar works, will be assigned. Four or five informal lectures on art and mythology will be given, and the course will be freely illustrated by the use of the lantern and photographs. 4 hours.

Classical Archaeology 4b. Greek Sculpture: A course in the history, principles, and development of Greek sculpture. Tarbell's History of Greek Art must be in the hands of each member of the class, but the instruction will consist largely of formal and informal lectures, illustrated by photographs and the lantern. Required readings in Murray's The Sculptures of the Parthenon, Furtwaengler's Masterpieces of Greek Sculpture, Waldstein's Essays on the Art of Phidias. 4 hours.

ECONOMICS

Professor Dowd, Assistant Professor Adams, Professors Taylor Van Vleet, Gittinger

Economics 1 and 2 may not be counted as major work.

Primarily for Undergraduates

Economics Ia. Elementary Economics: A treatment of the fundamental principles of the science. Gide's Principles of Political Economy. Assistant Professor Adams. 4 hours.

History 54b. Economic History of England: A study of the development of industry and commerce since the Norman Conquest. This course is designed to give a broad grasp of the principles involved in the development of economic institutions and incidentally to point out the bearing of this development on that of legal and political institutions. Professor Gittinger. 2 hours.

Economics 3b. Economic History of the United States: A study of the main economic problems that have confronted our country, their relation to the distribution of population, to politics, and social conditions. (This course is given in alternate years. Given in 1914-15). Assistant Professor Adams. 2 hours.

Economics 4a. Money and Banking: The work will consist of recitations, assignments, and lectures, and will be made as practical as possible. The rise, history, and development of the various banking and money theories are presented and discussed. White's Money and Banking, Report of the Monetary Commission. Assistant Professor Adams. 4 hours.

Economics 5b. Public Finance: A study of the general principles of public expenditure, public revenue, public indebtedness, and financial administration. Plehn's Public Finance, and assigned readings. Professor Dowd. 4 hours.

Economics 6b. Labor Problems: The conflicts between employer and wage-earner; strikes, lock-outs, cooperation, profit sharing, arbitration, trade unions, employment of women, child labor, labor legislation, and the various plans for the betterment of the condition of workingmen. Each student will be assigned a subject for special study. Assistant Professor Adams. 4 hours.

Economics 7a. Economic Geography: A general survey of the natural resources, industries, and commerce of the leading nations, with special reference to the exports and imports of the United States. Trotter's Geography of Commerce, and collateral reading. Assistant Professor Adams. 2 hours.

Economics 8a. Business Administration: A study of legal

forms, credit instruments, funding operations, accounting, and executive duties. Professor Dowd. 2 hours.

Economics 9b. Business Administration: A continuation of Economics 8. Supervision and auditing in connection with passenger transportation; light and power companies; insurance; jobbing; the commission business; brokerage; importing and exporting. Professor Dowd. 2 hours.

Botany 5a. General Forestry: See Botany 5a. Professor VanVleet. 2 hours.

Botany 6a. Industrial Botany: See Botany 6a. Professor VanVleet. 2 hours.

Geology 3b. Economic Minerology and Geology: See Geology 3b. Professor Taylor. 2 hours.

For Undergraduates and Graduates

Economics 100a. Industrial Combinations: The organization, promotion, operation, and finances of industrial combinations; their relation to the investor, the wage-earner, and the consumer. Meade's Trust Finance, and assigned readings. Each student will make a special study of an assigned subject. Assistant Professor Adams. 4 hours.

Economics 101a. Transportation: A study of the most important economic phases of railway transportation. Lectures, readings, and reports. Assistant Professor Adams. 2 hours.

Economics 102b. Insurance: A study of the problems of insurance of general interest, with special attention to life insurance. Assistant Professor Adams. 2 hours.

Economics 103b. Economic Statistics: The sources and reliability of statistical data; the methods of distinguishing true and false inferences. Special reference will be made to the statistics of present economic problems, and practice will be given in handling statistical data. Assistant Professor Adams. 2 hours.

Economics 104a. Rural Economics: This course deals with the problems of credit, cooperative buying and selling, transportation, labor, insurance, etc., as affecting the rural population. Assistant Professor Adams. 2 hours.

Primarily for Graduates

Economics 200a. Seminary for Research: This course is to develop original investigation. Open to graduate and major students. Professor Dowd. 1 to 3 hours.

Economics 201b. Seminary for Research: A continuation of Economics 200. Professor Dowd. 1 to 3 hours.

EDUCATION

Professor Phelan, Professor Barrett, Professor Parsons

Philosophy 1 is a prerequisite to all courses in education, and should be elected in the sophomore year.

Some knowledge of logic, ethics, sociology. and biology is desirable for students doing regular work in education.

Primarily for Undergraduates

Philosophy Ia. General Psychology: Prerequisite for all courses in education. See Philosophy. Professor Phelan. 4 hours.

Education 2b. Educational Psychology: A study of the elements and principles of the learning process; the fundamental instincts and capacities and their relation to interest and attention; the individual differences of children; the organization of experience as habit and judgment, perception, imagination, memory, correlation of studies, analysis, reasoning, moral training, cultivation of emotions, motor expression, and motor training. Collateral reading, lectures, recitations, and reports. This course and Philosophy 1 satisfy the requirements of Group VII. Klapper's Principles of Educational Practice. Professor Phelan. 4 hours.

Education 3a. History of Education: Ancient, Medieval. and Modern Development of educational ideals and practices from a typical oriental civilization through Jewish, Greek, Roman, and early Christian civilization down to the Renaissance. The humanistic, realistic, naturalistic, scientific, psychological, and sociological phases of modern development of the educational aim. Lectures, reports, readings, and a thesis. Professor Barrett. 4 hours.

For Undergraduates and Graduates
Division A

Education 101b. Principles of Education: A course in the philosophy of education. The aims, ideals, and basis of effective teaching will be examined in the light of biology, psychology, and sociology. The school will be studied as a social institution, with special regard to the ethics of democracy, and the institutions that educate. The nature of the curriculum will be determined with reference to the doctrine of formal discipline, and the elemental educative values. The relation of psychology to teaching will be shown in the problems of instinct, interest, habit, memory, perception, and inference. This is an introductory course. Collateral reading, lectures, recitations, and a thesis. Ruediger's Principles of Education. Professor Barrett. 4 hours.

Education 102a. History of Secondary Education: The development of the American middle schools; comparison of American

and foreign institutions; the course of study; methods; management. The course is planned to give a general view of the history and present status of secondary education in this country. Lectures, recitations, and a thesis. Professor Barrett. 2 hours.

Education 103b. Organization and Management of Secondary Schools: Importance and meaning of secondary school studies; their organization into a curriculum; method as applied to each subject; the resources at the command of the teacher. The following studies receive special attention: Latin and modern languages, history and English, science and mathematics. The moral element in education; the social organization of the high school; entrance requirements and the comparative study of high school reports. Lectures, recitations, readings, and a thesis. Professor Parsons. 3 hours.

Philosophy 104b. Genetic Psychology: See Philosophy. Professor Phelan. 4 hours.

Education 105b. Experimental Pedagogy: This course considers the motor, intellectual, and emotional development of childhood and youth. Problems of growth, play, fatigue, individual and sex differences are studied. Mental and social measurements are investigated, consisting of physical, motor, and sensory tests, and experiments in perception, association, suggestion, imagination, and memory. Schulze's Experimental Psychology and Pedagogy. Professor Phelan. 4 hours.

Education 106a. Pedagogy of Elementary Education: A course in grammar grade methods for superintendents and principals; special emphasis given to the child's process of learning; and the method of the recitation. The aim is to familiarize the student with the correlation of the subject matter of the school curriculum, and the principles involved in the constructing of a course of study. Discussion on the best methods of teaching arithmetic, language, history, geography, and science will be paralleled by observation work. Lectures, required readings, writing of lesson plans, and text-book study. Professor Barrett. 4 hours.

Education 107b. Educational Classics: An advanced course in the history of education. From year to year it will consist of a critical study of the more important writings of the great educators of special periods. For 1913-14 the educators studied will be those of the eighteenth and nineteeth centuries. Lectures, readings, reports, and a thesis. Professor Barrett. 2 hours.

Education 108a. School Economy: A study of the problems of the school room for the high school teacher, principal, or superintendent. This course will consider the principles and practice of class room management, including such problems, as the prevention of waste

of time and energy, discipline, methods, marking, records, reports, tests, and promotions; the general principles of physical and mental hygiene, a study of the hygienic conditions and surroundings which favor or retard development; and a comparison of the school laws of Oklahoma with those of other states. Lectures, recitations, readings, and reports. Professor Phelan. 4 hours.

Education 109b. Comparative School Systems: This course is designed to present the essential features of the school systems of the United States, England, Germany, and France, to compare these systems with each other, and to judge of the efficiency of each in the light of its respective educational aims and national ideals. Among the topics treated are organization, supervision, curriculum, methods of teaching, continuation schools, technical schools, universities, etc. Lectures, prescribed readings, and reports. Professor Parsons. 2 hours.

Education 110a. Principles of Moral Education: An examination of the nature of character development, and the application of the principles thus derived to the problems of character building confronting the teacher and parent. A study of moral values and the methods of moral instruction and training in the schools. Lectures, readings, discussions, and a thesis. Professor Phelan. 2 hours.

Education 111a. Sociological Phases of Education: Lectures readings, reports, and a thesis. Prerequisite, Education 3, Philosophy 1. Professor Barrett. 2 hours.

Education 112b. School Administration and Supervision: A course in the study of administration and supervision of public schools. A systematic study of actual conditions as revealed by school reports of school mechanism, buildings, grounds, programs, hygiene, abnormal pupils, teacher's personality, library service, etc. The course is designed to prepare principals and teachers for supervisory positions. Special study of Oklahoma school law, personal observation of school systems, and critical reports. Professor Barrett. 4 hours.

Education 113. Educational Measurement: A survey of experimental and statistical investigations of school problems, comprising the Courtes tests in arithmetic, Ayres tests in handwriting, the Hillegas tests in compositions and the Pearson tests in spelling.

This is an in absentia course to which students qualified by previous training will be assigned problems for experimental investigation in the public schools of the state. 2 hours.

Division B

The following courses in special methods of teaching are described in full under the respective departments.

Education 131b. Teacher's Course in English: Intended

primarily for high school teachers of English. Prerequisite, English 1 and 2. See English. Professor Brewer. 2 hours.

Education 132b. Teacher's Course in Latin: Methods of teaching Latin; more difficult portions of third and fourth year Latin translated; syntax. See Latin. Professor Sturgis. 3 hours.

Education 133s. Teacher's Course in Mathematics: Attention is given chiefly to the organization and methods of presentation of algebra and geometry. See Mathematics. Professor Kent. 3 hours.

Education 134a. Teacher's Course in French: Methods of teaching French, analysis of high school texts. See French. Professor Dora. 2 hours.

Education 135b. Teacher's Course in German: Study and discussion of methods of teaching German in secondary schools. See German. Professor House. 2 hours.

Education 136a. Teacher's Course in Botany: For teachers of botany in high schools. See Botany. Professor VanVleet. 4 hours.

Education 137b. Teacher's Course in Zoology: Course designed for teachers of nature study in the public schools and zoology in the high schools. See Zoology. Professor Lane. 2 hours.

Education 138b. Teacher's Course in Public Speaking: Investigation of the methods of teaching public speaking in the high schools. See Public Speaking. Assistant Professor Tanner. 2 hours.

Education 139a. Teacher's Course in Music: Course for supervisors of music. See Music. School of Fine Arts. Associate Professor Dungan. 2 hours.

Education 140b. Teacher's Course in Music: See Music, School of Fine Arts. Associate Professor Dungan. 2 hours.

Education 141a. Teacher's Course in Physical Training: Instruction in methods of teaching gymnastics and athletics. See Physical Training. Dr. Darling and Mr. Owen. 3 hours.

Education 142b. Teacher's Course in Physical Training: A continuation of Education 141. See Physical Training. Dr. Darling and Mr. Owen. 3 hours.

Primarily for Graduates

Education 201a. Philosophy of Education: A course in advanced educational theory. It follows MacVannel's outline in the Philosophy of Education, and embraces such topics as the following: evolution and idealism as bases of education; personality and environment; the individual and society; moral institutions; democracy and education; the course of personal development; the school as a social institution; the course of study. Professor Phelan. 1 hour.

Education 202a. Seminary in Educational Psychology: Introductory work in the psychology of education is presupposed. Op-

portunity for research is provided. Subjects for the year: A study of individual differences; education of defectives; classification of backward children; retardation; elimination; doctrine of interest and doctrine of formal discipline, etc. (Given in alternate years. Given in 1914-15.) Professor Phelan. 1 hour.

Education 203b. Current Educational Problems: The topics discussed will necessarily vary somewhat from year to year. An attempt will be made to study carefully the questions that are in the focus of consciousness of the educational public. Reports and class discussions based on current educational magazines, recent monographs, and educational publications. This course should be of special interest to teachers and advanced students of educational and social problems. Professor Phelan. 1 hour.

Education 204b. Seminary in Administration and Supervision of Education: A research course for advanced students who desire to investigate some of the larger problems in the sphere of the administration and supervision of public education. (Given in alternate years. Given in 1914-15). Professor Phelan. 1 hour.

ENGLISH LITERATURE AND LANGUAGE

Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Assistant Professor Tanner, Mr. Morgan, Mr. Wells.

The work in English falls into three main divisions.

Division A, which includes courses 1, 2, 5, 7, 8, and 9, deals with the principles of composition. Courses in argumentation and journalism belong to this division. Study of literature forms a part of most courses in composition.

Division B, which includes courses 15, 100, 101, and 102, deals with old and middle English and the history of the language.

Division C, which deals with English literature, is arranged in two sub-divisions. The first, concerned with schools and movements, includes courses 3, 4, 11, 12, 13, 14, 108, 109, and 110. The second, which has to do with the more intensive study of individual writers or groups of writers, includes courses 105, 106, 107, 111, 112, 113, 114, and 115.

English 1 is a prerequisite to all other courses in English.

English 1 and 2 are required of all candidates for the bachelor's degree.

English 3 and 4 are required of all who select English as a major subject. English 3 and 4 taken together serve as a general introduction to English literature, and are recommended both to students who can

do only limited work in English literature and to those who wish merely to fulfill the group requirements in English.

English 1, 2, 3, and 4, may not be counted as major work.

Primarily for Undergraduates

English 1a. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence; daily and fortnightly themes. Required of all candidates for the bachelor's degree. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it.

The course is given in seven sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, and Mr. Wells. 4 hours.

English 2b. First Principles of English Composition: Lectures on words, with a study of selected examples of nineteenth century prose and poetry; daily and fortnightly themes at intervals, with a special study of the works of one writer. English 2 is a continuation of and presupposes English 1. Required of all candidates for the bachelor's degree.

The course is given in seven sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, and Mr. Wells. 4 hours.

English 3a. English Literature from Spenser to Pope, 1575-1745: A study in movements, with special attention to the secondary dramatists of the Elizabethan time, to the literature of the Restoration, and to the rise of classicism. Lectures and readings. Professor Hadsell. 4 hours.

English 4b. English Literature from Dr. Johnson to William Morris, 1745-1896: A continuation of English 3, with special consideration of the decay of classicism, the romantic reaction, and the movements of nineteenth century literature. Lectures and readidgs. Professor Hadsell. 4 hours.

English 5a. Argumentation: Practice in analysis, testing of evidence, and argumentative style, brief drawing and the gathering and presentation of material for debates and argumentative themes. Assistant Professor Tanner. 4 hours.

English 7a. Advanced Composition: A course in writing, with reference to the short story and the special article. Prerequisite, English 1 and 2, passed with at least a grade of B. (Given in alternate years. Given in 1914-15.) Professor Hadsell. 4 hours.

English 8b. Advanced Composition: A course in narrative writing. Prerequisite, English 1 and 2, passed with at least a grade of B, Assistant Professor Brooke. 2 hours.

English 9a. Advanced Composition: This course is intended for engineers and students in science of junior and senior rank. Par-

ticular attention will be given to the gathering and preparation of material, and to the writing and criticism of scientific papers. Assistant Professor Brooke. 2 hours.

English 11a. American Literature: A study of the literary productions of America, from the settlement of the colonies to the present time. Throughout the course the development of literature in America is studied in relation to its contemporary development in England. Lectures and reports from assigned readings. Mr. Morgan. 4 hours.

English 12a. The English Bible: A study of the King James version, from the point of view of literature. Lectures and assigned readings. Prerequisite, English 1. Assistant Professor Brooke. 2 hours.

English 13a. The Novel in the XIX Century: A study of the chief novelists from Scott to Hardy, with some account of contemporary fiction, and a special study of realism. (Given in alternate years. Given in 1913-14.) Professor Hadsell. 3 hours.

English 14b. The Novel in the XVIII Century: A study of the structure and history of the novel from Defoe to Scott. Lectures and library work. (Given in alternate years. Given in 1914-15.) Professor Brewer. 3 hours.

English 15a. Historical English Grammar: An outline history of the development of the English language, with an examination of the nature and extent of the English vocabulary. The course will be of interest to students who have completed English 1, and to teachers of English. (Given in alternate years. Given in 1914-15.) Professor Hadsell. 4 hours.

For Undergraduates and Graduates

English 100a. Anglo-Saxon: An introduction to early English prose and poetry. Bright's Anglo-Saxon Reader. Professor Hadsell. 4 hours.

English 101b. Anglo-Saxon Poetry: Beowulf. The poem will be studied as a text, as a work of literature, and as a historical document. Prerequisite, English 100 or an equivalent. (Given in alternate years. Given in 1914-15.) Professor Hadsell. 4 hours.

English 102b. Middle English: An introduction to the study of Middle English prose and poetry. Prerequisite, English 100 or equivalent. (Given in alternate years. Given in 1913-14.) Professor Hadsell. 4 hours.

English 105b. Chaucer: A study of Chaucer's English and of his works as a whole. Lectures, reports, and a thesis. Professor Hadsell. 4 hours.

English 106a. Shakespeare: The early comedies, the chronicle

plays, the later comedies, the tragedies, and the romances are studied in succession. Particular attention is paid to the growth of the mind and art of the man Shakespeare. Ten plays are studied in class and ten or more, together with the life of Shakespeare, are assigned for library reading. Students who have not had at least two years of English in college should secure permission of the instructor to enroll in this course. Lectures, readings, and reports. Professor Brewer. 4 hours.

English 107b. Shakespeare: In this course, a thorough study of several plays not studied in English 106 is made. The early theatre, problems confronting the Elizabethan playwright, what the plays meant to the theatre-goers of the day, and like questions will be considered. This is a continuation of English 106 but it may be taken as an independent course. Lectures and library work. Professor Brewer. 2 hours.

English 108a. The Drama: A study of the rise and development of the drama from the earliest miracle plays to the close of the sixteenth century. A seminary with lectures and assigned readings in the dramatic authors of this period, exclusive of Shakespeare. Discussions and reports. Prerequisite, English 3 and 4, and one other semester of elective English, preferably English 106. (Given in alternate years. Given in 1913-14.) Assistant Professor Brooke. 4 hours.

English 109b. The Drama: This is a continuation of English 108, but with the permission of the department it may be taken as an independent course. A study of the progress of the drama to the closing of the theatres in 1642. Attention is paid to the Restoration and the later drama. Seminary with lectures, discussions, and special reports. Prerequisite, English 3, and 4, and either 108, or 106 or 107. (Given in alternate years. Given in 1913-14.) Assistant Professor Brooke. 4 hours.

English 116b. The Modern Drama: A study of the principal English and European dramatists of the end of nineteenth and of the beginning of the present century. Mr. Morgan. 2 hours.

English 110b. American Literature: Special studies of representative American authors. Longfellow, Lanier, Poe, Whitman, Emerson, and Lowell were studied in 1912-13. Lectures, and recitations. Mr. Morgan. 2 hours.

English 111a. Early Nineteenth Century Poetry: In this course a study is made of the romantic poets from Wordsworth to Keats. Particular attention is paid to the romantic movement in English poetry. Professor Brewer. 2 hours.

English 112b. Tennyson and Browning: A study of the

poetry of Tennyson and Browning and Arnold, and of the period in which these three poets were the dominant figures. Lectures and assigned readings. (Given in alternate years. Given in 1914-15.) Professor Brewer. 2 hours.

English 113b. Later Victorian Poetry: A study of Rossetti, Swinburne, Morris, with some attention to the verse of the minor poets of the period. Lectures and assigned readings. (Given in alternate years. Given in 1913-14.) Professor Brewer. 2 hours.

English 114a. Nineteenth Century Essayists: Studies, intended particularly for graduate students but open to seniors by permission of the department, in the essayists and journalists of the early part of the century. Special seminar studies are usually made in Lamb, Hazlitt, Leigh Hunt, and DeQuincey. Professor Brewer. 3 hours.

English 115b. Nineteenth Century Essayists: A continuation of English 114 with special studies in Macaulay, Carlyle, Ruskin, and the prose writers of the latter part of the century. Professor Brewer. 3 hours.

Education 131b. Teacher's Course: Intended primarily for high school teachers of English, but open to juniors and seniors. The work will be practical, consisting chiefly of specimen studies of English and American classics, a review of the leading principles of composition, with practice in writing and correcting papers, and a survey of the methods of teaching English. Lectures, recitations, and exercises. Prerequisite, English 1 and 2, or their equivalent. Professor Brewer. 2 hours.

GEOLOGY

Professor Taylor, Professor Perrine

Group requirements should be selected from Geology 1, 2, and 3.

Geology 1 and 2 are not accepted for Major work.

If Geology 1 is elected, it shold precede Geology 2 or 3.

Primarily for Undergraduates

Geology 1. Elementary Geology: A general introductory course. A study of the origin of the earth, its past and probable future; the chief rocks and minerals and the manner of their formation, destructive and reconstructive processes; crustal movements and mountain structures; vulcanism and metamorphism; a chronological study of the history of the earth, and of the development and evolution of life forms. A field excursion to the Arbuckle Mountains is included as part of the required work. Professor Perrine. 4 hours.

Geology 2b. Physiography: A study of the development of land forms and of the agents which produce them. Special considera-

tion is given to the life history and work of streams, to glaciers, to the ocean, volcanoes, etc. The course includes a brief consideration of meteorology. A field trip to the Arbuckle Mountains is included as a part of the required work. Professor Taylor. 4 hours.

Geology 3b. Elementary Mineralogy and Economic Geology: A megascopic determination of the more important rock-making minerals and ores. A brief discussion of the origin, mineral and chemical composition, and classification of rocks. This course is designed to meet the needs of high school teachers and others not planning to take their major work in geology. Desirable antecedents: Chemistry 1. Professor Taylor. 4 hours.

Geology 4b. Map Interpretation: A critical study of topographic and geologic maps. Special attention is given to accurate interpretation of maps showing typical physiographic forms and geologic structures. This course should be preceded by, Geology 1. Professor Perrine. 2 hours.

Geology 5a. Oklahoma Geology and Geography: The geology and geography of Oklahoma, with particular reference to the mineral resources, soils, water supply, climate, etc. Professor Taylor. 4 hours.

Geology 6b. Economic Geography of North America: A study of the distribution and value of minerals, building stone, soils, forests, water power, and crops of North America, and the consequent influence on industrial enterprises. This course will be of special value to teachers of geography as well as to students of geology. Prerequisite, a general knowledge of physiography. Desirable antecedents: Geology 1, 2, and Chemistry 1. Professor Taylor. 4 hours.

For Undergraduates and Graduates

Geology 100a. Elementary Paleontology: A study of the development of life forms through the various geological periods from the stratigraphic standpoint, the aim being to familiarize the student with the characteristic fossils of each system. Lectures, supplemented by laboratory work in which each student makes specific determination of fossils. Prerequisite, Geology 1. Professor Perrine. 2 hours.

Geology 101b. Elementary Paleontology: A continuation of Geology 100. A study of the principal classes of fossil invertebrate animals, from the biological standpoint, with respect to their form, structure, origin, range, distribution, and interrelations. Lectures, supplemented by laboratory work with specimens. This course may be taken independently of Geology 100. A field trip to the Arbuckle

Mountains is included as a part of the required work. Prerequisite, Geology 1 and 2. Professor Perrine. 2 hours.

Geology 102a. Crystallography and Mineralogy: A study of the laws of crystallization, and the classification of crystals. The physical properties, chemical composition, and mode of occurrence of minerals. Prerequisite, Chemistry 1. Professor Taylor. 3 hours.

Geology 103b. Mineralogy: A continuation of Geology 102. Descriptive mineralogy and blowpipe analysis. Professor Taylor. 3 hours.

Geology 104b. Economic Geology: A study of ore deposits with respect to their origin, mode of occurrence, and value. Also a study of oil, gas, etc., with particular reference to their occurrence and development in Oklahoma. Prerequisite, Geology 1, 3, or 102, and general chemistry. Professor Taylor. 4 hours.

Geology 105a. Continental Evolution: The principles of continental evolution based on the physical history of North America. Prerequisite, Geology 1, 2, and 100. Professor Perrine. 4 hours.

Geology 106b. Continental Evolution: A continuation of Geology 105; the nature of the work is the same. Professor Taylor, or Professor Perrine. 4 hours.

Geology 111b. Paleontology of Oklahoma: Designed to give those who desire to do geologic work a knowledge of the characteristic fossils found in the state. Open only to those who in the judgement of the instructor are capable of pursuing the work with profit. (Given in alternate years. Given in 1914-15.) Professor Perrine. 2 hours.

Geology 112. Special Problems: Lectures and assigned readings on the chief problems of a general nature represented by North American geology and on certain technical questions, such as: the possible origin of the earth; the age and origin of the ocean basins; the possible causes of an ice age. Prerequisite, Geology 1 and 2. Professor Taylor. Credit Varies.

Geology 113. Field Work: Students who have had sufficient preliminary training may pursue systematic field work under direct supervision of the department. For this suitable credit will be given. The work will be planned for each individual. Professor Taylor and Professor Perrine. Credit Varies.

Primarily for Graduates

Geology 200a. Petrography: The principles of optical mineralogy and the determination of minerals under the polarizing microscope. Prerequisite, Geology 102. Professor Taylor. 4 hours.

Geology 201b. Petrology: A study of the origin and classification of igneous rocks; differentiation of rock magmas; metamorphism. Prerequisite, Geology 200. Professor Taylor. 4 hours.

Geology 202b. Advanced Paleontology: A continuation of

Geology 101. Laboratory, field work, and assigned readings. Prerequisite, Geology 1, and 100, or 101. Professor Perrine. Credit Varies.

Geology 203b. Economic Geology: Advanced course. Special attention will be given to problems of genesis of ore deposits. Prerequisite, Geology 103, 104, and 200. Professor Taylor. 4 hours.

GERMANIC LANGUAGES AND LITERATURES

Professor House, Associate Professor Voss

German 1, 2, 3, and 4 may not be counted as major work.

German 1a. Beginning German: Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Prerequisite, two years of foreign language. Becker-Rhoades' Elements of German and Bacon's Im Vaterland. Professor House and Associate Professor Voss. 4 hours.

Primarily for Undergraduates

German 2b. Beginning German: Bacon's Im Vaterland continued. Continuation of Becker-Rhoades' Elements of German. Prerequisite, German 1. Professor House and Associate Professor Voss. 4 hours.

German 3a. German Prose and Poetry: Two standard works such as Schiller's Wilhelm Tell and Freytag's Die Journalisten are read in class. One hour a week is devoted to the study of prose composition, and advanced syntax and drill in conversation accompanies each lesson. Osthaus and Biermann's Prose Composition and Voss and House's "Wie der Deutsche Spricht." Prerequisite, German 1 and 2. Professor House and Associate Professor Voss. 4 hours.

German 4b. German Prose and Poetry: Reading and critical study of representative German ballads and lyrics. Dillard's Aus dem Deutschen Dichterwald and a prose text such as Heine's Harzreise. Study of Osthaus and Biermann's Prose Composition and Voss and House's Conversational German continued. Reports upon assigned readings. German is the language of the class room. Prerequisite, German 1, 2, 3. Professor House and Associate Professor Voss. 4 hours.

German 5a. Classic German: Lessing and Schiller. Lessing's Emilia Galotti will be read in class, and the author's literary significance studied and discussed. Reports upon assigned readings will be received in class. One of Schiller's masterpieces will be studied in

class, and an appreciative estimate of the author's position in German literature will be sought. Prerequisite, German 1, 2, 3, 4. (Given in alternate years. Given in 1913-14.) Professor House. 4 hours.

German 6b. Classic German: Goethe. A systematic study of the life and writings of the author. Two of the plays will be read in class. Lectures in German and reports in German upon assigned readings. (Given in alternate years. Given in 1913-14.) Professor House. 4 hours.

German 7a. Nineteenth Century Literature: A study of German literary movements in the century. Lectures based upon assigned readings will be given in German. Special emphasis will be put on the importance of the romantic school. Parts of Kleist, Grillparzer, and Otto Ludwig will be read and studied in class. Prerequisite, same as for 5. (Given in alternate years. Given in 1914-15.) Professor House. 4 hours.

German 8b. Nineteenth Century Literature: The novel and drama of more recent time will be studied. Reports upon outside readings. Lectures in German by the instructor. Representative authors, such as Sudermann, Hauptmann, Fulda, and others, will receive attention in class as well. The literary significance of the Wagnerian opera will be discussed. Prerequisite, same as for 5. (Given in alternate years. Given in 1914-15.) Professor House. 4 hours.

German 9a. Scientific German: The aim of this course is to afford students of the sciences an acquaintance with technical scientific nomenclature and style. Translation of German scientific texts and articles in current technical periodicals will be required of students. Prerequisite, German 1 and 2. Wait's German Scientific Reader. Professor House. 2 hours.

German 10b. Scientific German: A continuation of German 9. Translation of German scientific texts (Goeschen Sammlung) and articles in current technical periodicals. Brief lectures in German on various topics selected from the different sciences will be from time to time required to be given in the class by the student, the subject matter to be subsequently discussed in class. Professor House. 2 hours.

German 11a. German Conversation: A course intended primarily for students who wish to increase their facility in the use of the spoken language. Prerequisite, two years of German. Associate Professor Voss. 2 hours.

For Undergraduates and Graduates

German 101a. Historical Grammar of the German Language: Introductory lectures upon Germanic philology and a study of the his-

torical changes in the development of modern German. Behagel's Die Deutsche Sprache. Prerequisite, German 1, 2, 3, 4 and either 5 and 6 or 7 and 8. (Given in alternate years. Given in 1913-14.) Associate Professor Voss. 4 hours.

German 102b. Middle High German: A study of Bachmann's Mittelhochdeutsches Lesebuch. Reading of selections from the Nibelungenlied and Gudrun. (Given in alternate years. Given in 1913-14.) Associate Professor Voss. 2 hours.

German 105b. History of German Literature: From the earliest times to the Classical period. A general survey of German literature in its relations to the literatures of other nations and its development in connection with the political history, religious movements and social conditions of Germany. Prerequsite, two years of German. Lectures, reports, and collateral reading. (Given in alternate years. Given in 1914-15.) Associate Professor Voss. 4 hours.

German 107b. History of German Literature: From Lessing to the present time. A continuation of 105. Representative works will be read in English translations. Special emphasis will be laid upon the political, social, religious, and artistic ideals of the classic and romantic schools. Prerequisite, the same as for 105. (Given in alternate years. Given in 1913-14.) Associate Professor Voss. 4 hours.

German 108a. Gothic: This course is intended as an introduction to philology. The Gothic language, because of its simplicity and regularity, is especially adapted to serve as a basis for the study of philology. The inductive method will be used, underlying laws in language development will be traced, and the interrelation between the Indo-European languages will be shown with special emphasis on Modern and Old English, German, and Latin. This course is also recommended to advanced students of English. Braune's Gothic Grammar will serve as reader and for reference. Prerequisite, the same as for 101. (Given in alternate years. Given in 1914-15.) Associate Professor Voss. 2 hours.

German 109b. Advanced Prose Composition: Translations, original compositions, letter writing. Special stress is laid on word order and proper use of idiomatic expressions. Osthaus and Biermann's Prose Composition. Prerequisite, the same as for 101. (Given in alternate years. Given in 1914-15.) Associate Professor Voss. 2 hours.

German 110b. Phonetics: A study of speech sounds in German and English. Prerequisite, three years of college German. (Given in alternate years. Given in 1913-14.) Associate Professor Voss. 2 hours.

German 111a. Goethe's "Faust": An analytical study, with

some consideration of its sources and of other literary treatments of the same theme. Text Calvin Thomas's edition. (Given in alternate years. Given in 1913-14.) Professor House. 2 hours.

Education 135b. Teacher's Course in German: Study and discussion of methods of teaching German in secondary schools, together with an analytic study of texts generally used in the first three years of German in high schools and normal schools. Review of grammar and practice in teaching. Prerequisite, three years' study of German. (Given in alternate years. Given in 1913-14.) Professor House.

GREEK

Professor Paxton

Greek 1, 2, and 3 are to be taken in the order named and are prerequisite for any of the succeeding courses except 10, 11, 12.

Greek 1, 2, 3, and 11 may not be counted as major work.

Classical Archaeology 1, 3, and 4 must be taken by those who take their major work in Greek, and may be counted as major work in the subject.

The Greek Grammar of Goodwin or Hadley and Allen should be in the hands of all students after the first year's work.

Primarily for Undergraduates

Greek 1a. Beginning Course: A careful drill in forms, accents, pronunciation, and elementary translation. Ball's Elements of Greek. 4 hours.

Greek 2b. Beginning Course (Continued): The text-book of Greek 1 will be completed and reviewed in part. Also the first book of the Anabasis. 4 hours.

Greek 3a. Xenophon: Anabasis; three more books read, and reviewed in part. Prose composition once a fortnight, with occasional oral drills. Reading in Grote. Some attention will be given to military antiquities. 4 hours.

Greek 4b. Lysias's Orations: Translation, some study of style, an elementary consideration of Greek legal procedure and of the Athenian Constitution. Text, Morgan. 4 hours.

Greek 5a. Homer's Iliad: Translation, scansion, a brief consideration of Homeric antiquities by references. Text, Seymour. 4 hours.

Greek 6b. Herodotus: The Persian Invasions of Greece. Plato's Dialogues may be substituted. 2 hours.

Greek 7a. Thucydides: The Sicilian Expedition. Readings in Grote. 2 hours.

Classical Archaeology 4b. Greek Sculpture: See Classical Archaeology 4.

Greek 10a. Greek Literature in English: A study of English translations of representative Greek masterpieces. Prerequisite, English 1 and 2. Text, lectures, and required readings. 2 hours.

Greek 11b. New Testament Greek: A study of the Gospel of St. John. Prerequisite, Greek 1. 2 hours.

Greek 12a. Modern Greek: The modern language will be studied in text-book, newspaper, and by conversation. No knowledge of classical Greek is necessary. 4 hours.

For Undergraduates and Graduates

Greek 100b. Selections from the Greek Drama.

Greek 101a. Aristophanes: One play will be read somewhat critically, one rapidly, and a third in translation.

HISTORY

Professor Buchanan, Professor Gittinger, Associate Professor Floyd, Professor Alley

The courses in history are listed in three divisions. The courses listed under A are primarily for freshmen and sophomores but are open for credit to juniors. The courses listed under B are primarily for juniors and seniors but may be taken by sophomores. The courses listed under C are also intended for juniors and seniors but are open for credit to graduate students.

Student entering with advanced credits equal to junior standing may upon the advice of the dean substitute History 55 or 56 for History 1.

History 1 may not be counted in fulfillment of the group requirements. Work listed under A may not be counted as major work.

Primarily for Undergraduates

Division A

History 1a. Institutional History: A general course including the study of the origin and development of American institutions. This course is planned as introductory to all the more advanced work in the social sciences. Professor Gittinger, Associate Professor Floyd, and Professor Alley. 4 hours.

History 9a. Mediaeval Europe: A survey of the period from the beginning of the middle ages to the close of the fifteenth century. Associate Professor Floyd. 4 hours.

History 10b. Modern Europe: The political, social, and in-

stitutional history of Europe from the opening of the sixteenth century to the present. Associate Professor Floyd. 4 hours.

Division B

History 51a. Early and Mediaeval England: The first half of a general course in English history. Professor Gittinger. 4 hours.

History 52b. Modern England: The second half of a general course in English history. Professor Gittinger. 4 hours.

History 54b. Economic History of England: A study of the development of industry and commerce in England. Prerequisite, Economics 1. Professor Gittinger. 2 hours.

History 55s. Political History of the United States: A general survey from the revolutionary era to the presidency of Jackson. Lectures, text-book, and collateral reading. This course should precede all advanced courses in American history. Professor Buchanan. 4 hours.

History 56b. Political History of the United States: A continuation of History 55, beginning with the presidency of Jackson and coming down to the present. Lectures, text-book, and collateral readings. Professor Buchanan. 4 hours.

History 57a. History of the American Colonies: The object of this course is to make a study of the development of the English political, social, and economic principles under American conditions. The work will be based on Thwaite's Colonies, Fisher's Colonial Era, and references to the accessible sources. Prerequisite, History 1 and 2. (Given in alternate years. Given in 1914-15.) Professor Gittinger. 4 hours.

History 59a. History of Greece: The oriental nations and Greece through the Persian invasions. The development and spread of Greek civilization to the Roman conquest. (Given in alternate years. Given in 1914-15.) Professor Gittinger. 4 hours.

History 60b. History of Rome: A study of Roman origins and the development of Roman character. The growth of Roman power over the Mediterranean world and the foundation of the Empire. The first four centuries of the Christian era. Special attention will be given to the causes of the decay of ancient civilization. (Given in alternate years. Given in 1913-14.) Professor Gittinger. 4 hours.

For Undergradutes and Graduates

Division C

History 101a. Eighteenth Century Europe: A careful study of Europe from the beginning of the eighteenth century to the close

of the Napoleonic era. Special attention will be given to the political, social, and industrial conditions in England and France. Associate Professor Floyd. 4 hours.

History 102b. Recent History of Europe: A careful study of industrial conditions, existing constitutions, and political parties of Europe, including England, since the beginning of the nineteenth century. Lectures and readings. Associate Professor Floyd. 4 hours.

History 103b. Constitutional History of England: The development of English institutions. Prerequisite, History 51 and 52, or 9 and 10. Professor Gittinger. 2 hours.

History 105a. Hebrew History: A study of the Hebrew people from the beginnings to the time of Nehemiah. Professor Gittinger. 2 hours.

History 106s. Territorial Expansion: This is an informal course requiring investigation into the geography of the United States and tracing the successive additions to our territory from the beginning of the government down to the present. Prerequisite, History 55 and 56. Professor Buchanan. 2 hours.

History 108a. The West: A study of the westward movement of population, and the political and economic aspects of the development of the different sections. Lectures and collateral reading. Professor Buchanan. 4 hours.

History 109b. History of Oklahoma: This course begins with a brief survey of the history of the district now comprised in Oklahoma under its Spanish and French management, followed by a history of the Louisiana Purchase. The principal aim of the course, however, will be to trace the development of Oklahoma from the settlement of the five civilized tribes of Indians west of the Mississippi, the development of Oklahoma Territory, and the amalgamation of the two territories into one state. Professor Buchanan. 2 hours.

History 110b. Civil War and Reconstruction: The history of the United States from 1860 to 1875. Professor Buchanan. 4 hours.

HYGIENE

Professor Ellison

Primarily for Undergraduates

Hygiene 1b. Principle of Hygiene and Sanitation: A course of lectures and demonstrations with assigned readings, taking up the subjects of ventilation, heating, food, digestion, disinfection, contagious diseases, water supplies, sewage, and sanitation, with methods of control and supperession of epidemics. Required of students of medicine. 3 hours.

JOURNALISM

Mr. Wells

Journalism 1a. The Newspaper: General survey of the field of journalism and definite study of the newspaper field. Principles of the news story. News gathering and news sources. Collateral reading. Laboratory. 2 hours

Journalism 2b. The Newspaper: Continuation of Journalism 1. Reporting and corresponding. Intensive study of the various types of news stories from standard contemporary papers. Collateral reading. Laboratory. 2 hours.

Journalism 3a. Newspaper Making: Organization of the office. Work in copy reading, telegraph editing, rewriting, proof reading, technique of type and headline writing. Reading. Laboratory. Prerequisite, Journalism 1 and 2, or equivalent experience. 4 hours.

Journalism 4b. Newspaper Making: Continuation of Journalism 3. Technique of cuts and illustrations. Emergency headlines. Make-up. Study of the real value of news and its treatment. The human interest story and the feature. Local, state, and national news gathering. Reading, laboratory. 4 hours.

Journalism 100a. Special Feature Writing: This course includes reviewing. special reporting, and interviewing. A consideration of the selection of subjects and their availability to different classes of publications. Study of models. The general problems of a magazine writer. Conducting business with publishers. Work in this course may be submitted for publication. Open only to upperclassmen, except by special permission. 2 hours.

Journalism 101b. Editorial Writing: Shaping of public opinion and practice. Fundamental principles of argumentation. Intensive study of editorials of important weeklies and dailies, and their effect. Ethics of the desk and the front office. Open only to upperclassmen, except by special permission. 2 hours.

Journalism 102a. History of Journalism: Survey of the history and evolving principles of journalism with special emphasis on the newspaper. Reading. (Given in alternate years. Given in 1914-15.) 2 hours,

Journalism 103b. Social Importance of Journalism: A course for advanced students in journalism. Of interest also to students in history economics, political science, education, English, philosophy, and sociology. Lectures by members of various departments of the university, seminar discussions. (Given in alternate years. Given in 1914-15.) 2 hours.

LATIN

Professor Sturgis

Latin 1, 3, and 4 are open to freshmen who have had Caesar.
Latin 1, 2, 4, and 5 may not be counted as major work.

Primarily for Undergraduates

Latin 1a. Cicero: Six orations of Cicero, with special attention to syntax. 4 hours.

Latin 2s. Vergil: Six books of the Aeneid. Some attention will be given to the subject of meter; but the chief aim will be idiomatic translation with a view to gaining an appreciation of the writer and an understanding of Vergil's place in literature. 4 hours.

Latin 3a. Latin Selections: Selections from representative Latin writers will be translated by the instructor. Members of the class will be asked to write out these translations in good English. The course will be found helpful to students of Latin who wish to get a survey of Latin literature as a whole, and to students of English composition who find themselves unable to write clear and coherent sentences. Open to those who have read Caesar. 2 hours.

Latin 4a. Selections from Ovid and Sallust: Gleason's A Term of Ovid and Herbermann's Bellum Catilinae will be used. Study of verse and mythology, practice in reading at sight short extracts of poetry (elegiac) and prose. 4 hours.

Latin 5b. Livy: Melhuish, Books XXI, XXII, or selections from I, XXI, XXII. Readings in Mommsen. Elementary study of Roman military organizations. Studies in the style of Livy. 4 hours.

Latin 7a. Cicero's Essays: Two or more, with a study of sources and the author's philosophic style. Comparisons of modern essays on like subjects. 4 hours.

Latin 8b. Latin Literature in English: A study of masterpieces of Latin literature translated into English. Lectures, readings, and informal discussions. Prerequisite, English 1 and 2. 2 hours.

Latin 9b. Latin Writing: Composition work in this course is based on the orations of Cicero against Catiline. The course will be found helpful to students preparing to take the Rhodes Scholarship examination, to those intending to teach Latin, and to others who may desire a thorough drill in Latin syntax. Prerequisite, Latin 1. 2 hours.

For Undergraduates and Graduates

Latin 100b. Horace's Odes and Epodes: Smith. Study of meters. Reading of essays and monographs on Horace. The Satires and Epistles will occasionally be read instead of the Odes and Epodes.

In that case a few of Juvenal's Satires will be read in addition. Papers on suggested subjects will be required. 4 hours.

Latin 101a. Plautus and Terence: Two plays will be read. Attention will be given to the history of Latin grammar and to the origin and development of the Latin drama. Prerequisite, Latin 4, 5, 7, and 100, or their equivalent. 4 hours.

Latin 102b. Tacitus: The Germania and Agricola, or extracts from the Annales, will be read. Attention will be given to disputed readings and to work in the history of Rome. Prerequisite, Latin 4, 5, 7, and 100, or their equivalent. 4 hours.

Latin 103a. Advanced Latin Writing: The first half of the semester will be devoted to a general review of Latin composition. The second half will be given to the study of the main differences between English and Latin, as regards idiom and style. 2 hours.

Latin 104b. Lucretius: Selected portions of the De Rerum Natura will be read. Special attention will be given to the philosophy of Epicurus. The student will also be required to do some work in textual criticism. Open only to those who have had five years of Latin. 4 hours.

Education 132b. Teachers Course in Latin: Methods of teaching Latin; more difficult portions of third and fourth year Latin translated; syntax. See Education. 3 hours.

MATHEMATICS

Professor Reaves, Associate Professor Kent

Mathematics 1 and 2 are required for admission to the College of Engineering and should preferably be taken in the high school. Students who select mathematics as one of their group electives are advised to take Mathematics 5 and 9 if they are prepared to do so, or else take Mathematics 2 and 9.

Mathematics 1, 2, 5, 6 and 9 may not be counted as major work.

Primarily for Undergraduates

Mathematics 1b. Solid Geometry: A brief review of portions of plane geometry followed by the usual propositions leading to the mensuration of solids. Associate Professor Kent. 2 hours.

Mathematics 2a. Algebra: A careful review of the fundamental principles followed by a study of exponents and radicals, theory of quadratics, graphs, systems of equations, complex numbers, ratio and proportion, progressions, logarithms, binomial theorem. Prerequisite, one year of algebra and one year of plane geometry. Associate Professor Kent. 4 hours.

Mathematics 5a. College Algebra: Embracing the subjects of

imaginaries, variables and limits, permutations and combinations, binomial theorem, series, undetermined coefficients, logarithms, determinants, and theory of equations. This course presupposes a minimum of one and one-half years in algebra. Three sections, Professor Reaves, Associate Professor Kent. 4 hours.

Mathematics 6a. Trigonometry: This is a brief course intended primarily for Engineering students, but open also to others. Associate Professor Kent. 2 hours.

Mathematics 9b. Trigonometry: Derivation and use of formulas, solution of triangles, trigonometric equations and identities, graphs of functions, computations of logarithms, DeMoivre's theorem. Prerequisite, Mathematics 2 or 5. Two sections. Professor Reaves, and Associate Kent. 4 hours.

Mathematics 14. Analytic Geometry: Equations and their loci; transformation of coordinates; the straight line, circle, and other conic sections; general equation of the second degree; introduction to solid geometry. Prerequisite, trigonometry. One section, first semester. Associate Professor Kent. One section, second semester. Professor Reaves. 4 hours.

Mathematics 17. Calculus: An elementary course in differential and integral calculus. Prerequisite, Mathematics 14. One section, first semester. Professor Reaves. One section, second semester. Associate Professor Kent. 4 hours.

For Undergraduates and Graduates

Mathematics 118b. Calculus: A continuation of Mathematics 17 with numerous applications to practical problems. Professor Reaves. 4 hours.

Mathematics 122b. Differential Equations: Ordinary and partial differential equations with applications to geometry, physics, and mechanics. Prerequisite, Mathematics 17. Associate Professor Kent. 3 hours.

Mathematics 125a. Theory of Equations: Prerequisite, Mathematics 14. Associate Professor Kent. 2 hours.

Mathematics 126b. Projective Geometry: Projective forms and relations, the principle of duality, anharmonic properties, involution, conics, problems and constructions. Text, Cremona. (Given in alternate years. Given in 1913-14). Professor Reaves. 4 hours.

Mathematics 131a. Advanced Calculus: A course based on Wilson's Advanced Calculus. Prerequisite, Mathematics 17. (Given in alternate years. Given in 1913-14.) Professor Reaves. 4 hours.

Mathematics 135a. Determinants and Solid Analytic Geome-

try: (Given in alternate years. Given in 1914-15.) Professor Reaves. 4 hours.

Mathematics 136b. Modern Analytic Geometry: Homogeneous coordinates, anharmonic ratio, curves of the second order and second class, poles and polars, Pascal and Brianchon theorems. (Given in alternate years. Given in 1914-15.) Professor Reaves. 4 hours.

Mathematics 141. Mathematical Seminary: The purpose of this course is to encourage junior and senior students in general mathematical reading of a somewhat advanced nature. The subject matter will vary from year to year, but will include some such subjects as the following: theory of numbers, higher algebra, higher plane curves, theory of functions. At hours to be arranged, either semester. Professor Reaves. 2 hours.

Education 133b. The Teaching of Secondary Mathematics: Attention is given chiefly to the organization and methods of presentation of algebra and geometry. Some of the topics considered are: unity of mathematical notions and topics: the relation of algebra and geometry to each other and to other studies of the curriculum. Educational purposes served by algebra and geometry in the modern high school: modernized problems and the sources of such problem material; methods of presentation of difficult topics; bibliography and other helps for teachers. Lectures, discussions and recitations. Open to those who have had experience in the teaching of algebra and geometry and to prospective teachers who have completed college algebra. Associate Professor Kent. 3 hours.

PATHOLOGY

Professor Turley

The work in this department is designed to meet four requirements: general culture, preparation for research, a more detailed knowledge of certain important organisms than is given in the biological courses, and a training in the essentials for the practice of medicine. The courses are open to all students of college rank on the approval of the instructor in charge.

Pathology 1 is required of all students of medicine.

Pathology may be combined with Bacteriology for a major.

Primarily for Undergraduates

Pathology 1b. General Pathology: A study of the abnormal functioning of the various organs of the body, the conditions producing diseases, the efforts of the body to overcome diseases and regenerate diseased tissues, disturbances in development, circulatory disturbances, retrogressive processes, progressive processes, inflammation, and

secondary diseases. This course is the basis of advanced special, clinical, and diagnostic pathology. Lectures, recitations, and demonstrations showing gross and micoscopic lesions in the human tissues. Required of all medical students; elective for others with prerequisite, Histology 1. Deposit required. Ziegler, and Mallory and Wright. 5 hours.

For Undergraduates and Graduates

Pathology 101a or b. Special Pathology: A course of lectures and demonstrations with anatomical material illustrating the pathological processes of the several organs. Prerequisite, Bacteriology 1 and Pathology 1. 4 hours.

Pathology 102a. Research Pathology: The student will pursue a definite line of research on a subject of pathology selected after consultation with the instructor in charge. This course is open to all students of the university who have the necessary prerequisites, and is designed especially for those who take major work in pathology. Laboratory, conferences, assigned readings, and reports. Deposit required. Prerequisite, Pathology 1, according to the nature of the subject chosen. 4 hours.

Pathology 103b. Research Pathology: A continuation of Pathology 102. Deposit required. 4 hours.

PHILOSOPHY AND PSYCHOLOGY

Professor Phelan, Professor Barrett

Primarily for Undergraduates

Philosophy 1a. General Psychology: This is a general introductory course aiming to give the student a survey of the main problems, principles, and methods of psychology, either as a part of a liberal education or as a preparation for professional study in education, medicine, or law. The following topics will be treated: sensation, perception, attention, habits, association of ideas, memory, imagination, conception, judgment, reasoning, instinct, emotion, volition, and personality. This is a prerequisite to all courses in psychology and education. Lectures, recitations, assigned readings, reports, and experimental work. Pillsbury's Essentials of Psychology. Professor Phelan. 4 hours.

Education 2b. Educational Psychology: See Education.

Philosophy 3b. Logic: An introductory study of real and formal logic, including the principles of argumentation, proof, and inference. The course begins with induction, takes up deduction and fallacies, and closes with a brief account of the philosophical problems involved in the science of logic. This course is open to students who

have completed at least one year of university work. Professor Barrett. 4 hours.

Philosophy 4a. Introduction to Philosophy: An outline study of the field of philosophical discussion, with an indication of its chief problems and methods of investigation. Fletcher's Introduction to Philosophy. This course is open to students who have completed at least one year of university work. Professor Phelan. 4 hours.

For Undergraduates and Graduates

Philosophy 101a. Experimental Psychology: Introductory course. Psychophysical methods, analysis of sensation, reaction, and study of the common senses. Lectures and work in the laboratory. (Given in alternate years. Given in 1914-15). Professor Phelan. 4 hours.

Philosophy 102b. Experimental Psychology: Special senses; space perception and illusions; higher intellectual process. Lectures and work in the laboratory. (Given in alternate years. Given in 1913-14). Professor Phelan. 4 hours.

Philosophy 103b. Comparative Psychology: A description and interpretation of the instincts and intelligence of animals. Comparison of the conscious life of the higher animals with that of man. Prerequisite, course 1 or some other introduction. Professor Phelan. 4 hours.

Philosophy 104a. Genetic Psychology: A special study of the child from birth to twelve years of age and of the psychology of youth from twelve years of age to manhood; a consideration of general heredity, the development of the nervous system and growth of the body as related to mental development, the nascent periods, the retardation periods, the development periods, imitation, psychology of play, emotion, associative memory, adolescence. Lectures, readings, reports, and a thesis. Professor Phelan. 4 hours.

Philosophy 105a. Abnormal Psychology: A general survey of the laws of abnormal mental phenomena. A study of such psychoses as throw light on the general and genetic problems of psychology. Disorders of sensation, memory association, emotion, and volition; order of failure of mental functions; some statement of heredity. A study of certain typical intoxication, exhaustion, and infection psychoses. Readings from Kraeplin and Ziehen. Lectures and a thesis. Prerequisite, Philosopy 1. Professor Phelan. 2 hours.

Philosophy 106a. Social and Applied Psychology: An introductory study of the psychic factors and forces behind material and social progress. The application of psychology to business, medicine, theology and law. Selected readings from Baldwin, McDougall,

Wundt. and Ross. Lectures reports and thesis. (Given in alternate years. Given in 1914-15.) Professor Phelan. 2 hours.

Philosophy 107b. Histoy of Psychology: A general survey of the development of psychology in ancient, medieval, and modern thought. Aristotle, St. Augustine, Aquinas, Descartes, Kant, and Wundt, will be studied intensively as representatives of distinct periods. Dessoir's History of Psychology. Professor Phelan. 2 hours.

Philosophy 108b. The Psychology of Religion: The more important phenomena of religion are studied from the psychological point of view—such as the development of religion in the individual, belief, conversion, revivals, prayer, mysticism, etc. Lectures, assigned reading, and original research by the students. Senior and junior elective course. Prerequisite, Philosophy 1. (Given in alternate years. Given in 1914-15). Professor Phelan. 2 hours.

Philosophy 109b. Aesthetics: Preliminary study of the history of æsthetic theories from the Greeks to the present. Analysis and criticism of æsthetic principles and theories from the standpoint of psychology. Reconstructive study of the theory of art, including the sense of beauty and the art impulse. Gordon's Esthetics. Professor Phelan. 2 hours.

Philosophy 110a. History of Philosophy: A general survey of philosophic speculation from its beginnings among the Greeks to the present time. Special attention will be given to the Greek philosophy through Aristotle, and to the medern period from Descartes to Hegel. The characteristic features of each philosophical system, with its place and influence in the progress of human thought, will be shown. Collateral readings, lectures, recitations, and a thesis. Professor Barrett. 4 hours.

Philosophy 112a. Theoretical Ethics: Intended to aid in mastering the fundamental problems of life and character. First, a discussion of the nature and relations of ethics and an outline of the history of the chief ethical systems. Second, a critical study of the fundamental concepts of ethics with the aim of constructing a tenable theory of conduct. Seth's Ethical Principles. (Given in alternate years. Given in 1914-15.) Professor Phelan. 4 hours.

Philosophy 113b. Practical Ethics: The application of theoretical principles of conduct to practical problems of life. Special consideration of duties, rights, temperance, charities, moral pathology, penology, ethics of belief. Textbooks, lectures, prescribed reading, and theses. Professor Phelan. 2 hours.

Philosophy 114b. Epistemology: A systematic course, both critical and constructive, in the philosophy of knowledge. All the im-

portant problems of epistemology are considered: knowledge as a mental process, the relation of experience and reason, phenomenalism and epistemological realism, agnosticism and scepticism. Lectures, papers, and discussions. Professor Phelan. 2 hours.

Philosophy 115a. Metaphysics: An advanced course, dealing with the fundamental problems relating to the nature and connections of reality—the Soul, the World of Things, and the Absolute. The aim is to construct a consistent and tenable theory of reality. The two main present day tendencies in metaphysics will be considered at length; namely. 1. Absolute idealism in the writings of Bradley and Royce. 2. Radical empiricism in the writings of William James and his followers. (Given in alternate years. Given in 1914-15.) Professor Phelan. 2 hours.

Primarily for Graduates

Philosophy 201a. Seminary in Psychology: A critical study of some specific subject, either the investigation of advanced psychological theories, or advanced work in comparative psychology with laboratory investigation on the learning processes of animals. Professor Phelan. 2 hours.

Philosophy 202b. Problems in Philosophy: A seminary course of research in the historical and critical problems of philosophy. This course will introduce the problems of contemporary metaphysics. Professor Phelan. 2 hours.

PHYSICAL TRAINING

Director Darling, Mr. Owen, Miss Revell

The department of physical training provides physical recreation daily as a balance to the sedentary demands of university life and affords an opportunity to form a habit of exercise. The work is carried on under medical supervision, and every student is entitled to a careful physical examination, which furnishes data for prescribing exercises. Freshmen are required to take physical training throughout the year. They are taught the proper care of the body, and are given exercises which promote health, good posture, symmetrical development, and a reasonable degree of skill and grace. Advanced courses are elective for competent students who have finished the prescribed courses. On account of the mild winters of Oklahoma, much of the class work is carried on out of doors. The gymnasium is open from 9:00 a. m. till 6:30 p. m. and is at the disposal of students except during regular class periods. The director or an assistant is

in constant attendance and advice or direction may be secured by any student at any time.

Physical training for women is under the supervision of a woman director. Instruction is given in personal hygiene and self-control, and exercises which promote graceful movements are given rat r than exercises which involve mental or physical strain. The exercises consist of marching, calisthenics, rhythmic movements, folk and gymnastic games, conducted for the most part in classes to the accompaniment of music.

Athletics are taught by a regular member of the faculty and are so arranged as to give the largest possible number of students an opportunity to play. Instruction is given in football, basket-ball, baseball, tennis, track and field work. Students who are physically competent are encouraged to play these games for their social and moral value as well as for the exercise. Athletics may be elected by students of special ability, with the consent and advice of the physical director, and credit secured for the prescribed courses.

Courses for Men

Physical Training 1a. Marching, calisthenics, Indian clubs, and dumb-bells. Required of freshmen. Dr. Darling. 1 hour.

Physical Training 2b. A continuation of Course 1 with the addition of elementary work on heavy apparatus. Required of freshmen. Dr. Darling. 1 hour.

Physical Training 3a. Work on horizontal bars, parallel bars, horses and mats. Elective for sophomores in the College of Arts and Sciences. Dr. Darling. 1 hour.

Physical Training 4b. A continuation of Course 3. Elective for sophomores in the College of Arts and Sciences. Dr. Darling. 1 hour.

Physical Training 5a. Special training in wrestling, fencing, and advanced apparatus work. Elective for students of special ability who have completed the prescribed courses. Dr. Darling.

Physical Training 6b. A continuation of course 5. Elective for students of special ability who have completed the prescribed courses and 5. Dr. Darling.

Physical Training 7a Athletics: Football, basket-ball, tennis. Elective for students who are physically competent. Dr. Darling and Mr. Owen. 1 hour.

Physical Training 8b. Athletics: Baseball, tennis, track and field work. Elective for students who are physically competent. Dr. Darling and Mr. Owen. 1 hour.

Education 141a. Teacher's Course: Instruction in methods of teaching gymnastics and athletics. Lectures and practice in gym-

nasium work, free hand exercises, use of light apparatus, class management, and coaching in football and basket-ball. Prerequisites, Physical Training 1, 2, 3, 4, and two years of university work. Recitations and lectures. Dr. Darling, Mr. Owen. 3 hours.

Education 142b. Teacher's Course; Instruction in gymnastics and athletics. Lectures and practice in gymnasium work, use of heavy apparatus, class management, and coaching in tennis, baseball and track. Prerequisites, Physical Training 1, 2, 3, 4, 9, and two years of university work. Recitations and lectures. Dr. Darling, Mr. Owen. 3 hours.

Courses 9 and 10, are designed for high school teachers who do not expect to give all their time to physical training, but who wish along with other branches to teach physical training, and coach athletic teams. In addition to the prerequisites named above, candidates should possess special qualifications for this work.

Courses for Women

Physical Training 51a. Calisthenics, marching, folk and gymnastic games. Required of freshmen. Miss Revell. 1 hour.

Physical Training 52b. Calisthenics, marching, Indian clubs, wands, and gymnastic games. Required of freshmen. Miss Revell. 1 hour.

Physical Training 53a. Advanced work with hand apparatus, Swedish, and German gymnastics. Fancy steps. Elective for sophomores in the College of Arts and Sciences. Miss Revell. 1 hour.

Physical Training 54b. A continuation of Course 53. Elective for sophomores in the College of Arts and Sciences. Miss Revell. 1 hour.

Physical Training 55a. Fancy Indian club and heavy apparatus work, fencing. Elective for competent students who have completed the prescribed courses. Miss Revell.

Physical Training 56b. A continuation of Course 55. Elective for competent students who have completed the prescribed courses. Miss Revell.

PHYSICS

Professor Haseman

The work of the department of physics in planned to meet the needs of three classes of students:

(1) Students who desire a general knowledge of phenomena and fundamental principles of physics. Physics 1 and 2 and such other courses as students are prepared to enter are recommended to meet the needs of this class.

(2) Engineering students who desire in addition to a general

knowledge a mathematical treatment of the fundamental principles and quantitative laboratory work in physics. Physics 51 and 52 are required of all engineering students and Physics 104 and 105 are required of students in the school of electrical engineering.

(3) Students who propose to teach physics or who desire to specialize in the department of physics. As a preparation for students who expect to teach physics in the secondary schools at least 16 hours of credit in the department is recommended. Students who de- to specialize in physics may take Physics 1 and 2 or Physics 51 and 52 as a beginning course and the more advanced courses in the order described.

Primarily for Undergraduates

Physics 1a. General Physics: Mechanics, sound, heat. Lectures, recitations, laboratory, and assigned reading. A beginning course in college physics. Three class periods and one laboratory period. 4 hours.

Physics 2b. General Physics: Electricity, magnetism, light. Lectures, recitations, laboratory, and assigned reading. A beginning course in college physics. Three class periods and one laboratory period. 4 hours.

Physics 51a. Mechanics, Sound, Heat: Lectures, recitations, laboratory, and assigned reading. Four class periods and one laboratory period. Prerequisite Trigonometry. 5 hours.

Physics 52b. Electricity, Magnetism, Light: Lectures, recitations, laboratory, and assigned reading. Four class periods and one laboratory period. Prerequisite Trigonometry. 5 hours.

For Undergraduates and Graduates

Physics 101b. Mechanics: A laboratory course including experiments on acceleration of gravity, coefficient of friction, efficiency of a machine, moment of inertia, compound pendulum, elastic constants, viscosity, surface tension, etc. Must be accompanied or preceded by Mechanics 51. 1 hour.

Physics 102b. Sound and Heat: Lectures and recitations, the theory of simple harmonic motion and wave motion in general with application to acoustical phenomena. A general discussion of fundamental heat phenomena followed by a study of the elementary principles of thermo-dynamics. Prerequisite, Physics 1 or 51 and accompanied or preceded by calculus. 4 hours.

Physics 103b. Sound and Heat: A laboratory course including experiments on vibration frequency, interference of sound waves, law of vibrating bodies, coefficient of expansion, calorimetric measurements, vapor density, vapor pressure, mechanical equivalent of heat,

the two specific heats of gases, etc. Must be accompanied or preceded by Physics 102. 1 hour.

Physics 104a. Electricity and Magnetism: Lectures and recitations. The general theory of potential, lines and tubes of force, fields of force, and influence of media as applied to electrostatics and magnetism. A study of the electric current with the theory of electromagnetism and electromagnetic apparatus. Prerequisite, Physics 2 or 52, and accompanied or preceded by calculus. 4 hours.

Physics 105a. Electricity and Magnetism: A laboratory course including experiments on accurate measurement of current, electromotive force, resistance, capacity, induction, hysteresis loss, calibration of electrical instruments, etc. Must be accompanied or preceded by Physics 104. 1 hour.

Physics 106b. Light: Lectures and recitations. A discussion of geometrical optics, followed by a study of the wave theory with special reference to the phenomena of interference, diffraction, dispersion, absorption, double refraction, and polarization. Prerequisite, Physics 2 or 52 and accompanied or preceded by calculus. 4 hours.

Physics 107b. Light: A laboratory course including experiments on refraction; interference with bi-prism, double mirror, grating and interferometer; spectrum analysis with spectroscope; polorization with polarimeter; etc. Must be accompanied or preceded by Physics 106. 1 hour.

Physics 108b. Electricity: Lectures and recitations. The theory of electric oscillations and waves and their applications to wireless telegraphy. Electric conduction in gases, and radioactivity with special reference to modern theories of the constitution of matter. Prerequisite, Physics 104. 4 hours.

Physics 109ab. Advanced Laboratory: A laboratory course planned to give students an opportunity to do experiments not included in Physics 101, 103, 105, 107. Problems requiring special investigation will be assigned students who are prepared to do such work. Prerequisite, Physics 1 and 2 or 51 and 52. 2 hours.

PHYSIOLOGY

Professor Nice

Physiology 1b. General Physiology: A practical course in human physiology, dealing with the structure and function of the different organs and tissues of the human body. Special emphasis is laid upon the application of the science to healthy living. This course

is designed for those desiring a thorough practical knowledge of physiology. Lectures and laboratory. Text, Brubaker. Fee, $2.00. 4 hours.

Physiology 2b. Human Physiology: An advanced study of protoplasm, lymph, blood, circulation, respiration, muscles, nerves, and the central nervous system. Prerequisite, Physiology 1 or its equivalent. Lectures, demonstrations, and assigned readings. Texts, Kirke or Howell. Required of medical students. 4 hours.

Physiology 3b. Experimental Physiology: Laboratory studies illustrating Physiology 2. Deposit required. 2 hours.

Physiology 4a. Human Physiology: An advanced study of nutrition, digestion, secretion, excretion, metabolism, dietetics, biochemistry, brain, special senses, and growth. Prerequisite, Physiology 1 or equivalent. Required of medical students. Text, Kirke or Howell. Lectures, demonstrations. and assigned readings. 4 hours.

Physiology 5a. Experimental Physiology: Laboratory studies illustrating Physiology 4. Deposit required. 2 hours.

POLITICAL SCIENCE

Professor Alley, Professor H. H. Foster

The courses in political science are designed as an aid to good citizenship and general culture and as a part of the preparation for the public service and the profession of law.

Primarily for Undergraduates

History 1. Constitutional History: Prerequisite for all courses in political science. See History. 4 hours.

Political Science 2a. General Political Science: A brief study of the nature of the state and of the structure and functions of government. Professor Alley. 4 hours.

For Undergraduates and Graduates

Political Science 100a. Constitutional Law: A study of the federal constitution as interpreted by the courts. Chiefly a discussion of leading cases. Professor Foster. 2 hours.

Political Science 101b. Comparative Government: A general study of the structure and practical working of the governments of Great Britain, France, Germany, and Switzerland. Professor Alley. 4 hours.

Political Science 102a. International Law: The general principles of the law governing the relation between states—the law of peace, the law of war, and the law of neutrality. Professor Alley. 4 hours.

Political Science 103b. American Diplomacy: Foreign policy of the United States, treaties and application of the principles of inter-

national law. Open to students who have taken a course in international law. Professor Alley. 4 hours.

Political Science 104a. Administration: The organization, function, and practical working of administrative authorities in the United States, federal, state, and local. Open only to advanced students. Professor Alley. 2 hours.

Political Science 105b. Municipal Government: A study of the organization, and actual administration of modern city governments. Open only to advanced students. Professor Alley. 2 hours.

Political Science 106b. Party Government: The organization, development, methods of action, and legal control of political parties in the United States. Open to students who have had Political Science 2 or 101, Professor Alley. 2 hours.

Primarily for Graduates

Political Science 200. Problems in Political Science: An introduction to independent investigation. Special problems according to the needs of the student and the material available for use. Open, with the consent of the instructor, to advanced students. Private conferences by appointment.

PUBLIC SPEAKING

Assistant Professor Tanner

The courses in Public Speaking are designed to give training along two general lines: first, interpretative reading and dramatic presentation; and second, composition and delivery of public addresses, debating, extemporaneous speaking, and oratory. The former courses are listed in the School of Fine Arts, and the latter are listed in the College of Arts and Sciences.

Primarily for Undergraduates

Public Speaking 1a. General Preparation: The fundamental principles of expression; correct and refined pronunciation, distinct articulation, the principles of gesture, pitch, tone, emphasis, and cadence. 2 hours.

Public Speaking 2b. General Preparation: A continuation of Public Speaking 1, together with oratorical delivery. 2 hours.

English 5a. Argumentation and Debating: See English. 4 hours.

Public Speaking 4b. Debating and Extemporaneous Speaking: The practical application of the principles of argumentation and debating, and the composition and delivery of more formal styles. Drill in extemporaneous speaking. Students not in the College of Arts and Sciences may elect this course without the prerequisites mentioned

below, upon recommendation of their respective deans and the approval of the instructor in public speaking. Prerequisites, English 1, 2, and 5. 4 hours

Public Speaking 5a. Advanced Public Speaking: An advanced course in the delivery of standard orations. Prerequisites, Public Speaking 1 and 2, or 4. 2 hours.

Public Speaking 6b. Advanced Public Speaking: A continuation of Public Speaking 5. 2 hours.

For Undergraduates and Graduates

Education 138b. Teacher's Course: Investigation of the methods of teaching public speaking in the high schools. A discussion of the problems of contests in oratory, debating, extemporaneous speaking, and declamation. Organization of courses of study, fitted to the needs of the high schools of Oklahoma. For those who show special aptitude for the work. 2 hours.

ROMANCE LANGUAGES AND LITERATURES

Professor Dora, Assistant Professor Curtis, Mr. Gimeno

FRENCH

Primarily for Undergraduates

French 1a. Beginning French: Essentials of grammar, practice in colloquial French, prose composition, reading of easy texts. Special attention will be given to the French verb and to word order. Fraser and Squair's French Grammar, Super's French Reader, Merimee's Colomba, and Halevy's L'Abbe Constantin. Given in two sections. Professor Dora. 4 hours.

French 2b. Intermediate French: Systematic study of grammar, French conversation, sight reading, parallel work. Fraser and Squair's Grammar, Cameron's Contes de Daudet, Merimee's Carmen, Scribe et Legouve's Bataille de Dames. Given in two sections. Professor Dora. 4 hours.

French 3a. Romanticism: Selected works of Victor Hugo, George Sand, Alfred de Vigny, Theophile Gautier, Alfred de Musset, Lamartine, and Dumas. Class work will be conducted, as far as is practicable, in French. Themes will be written on assigned subjects. Prerequisite, French 1 and 2. Professor Dora. 4 hours.

French 4b. Romanticism: Continuation of Course 3. Increasing use of French as the language of the class room. Topics assigned for original research. Comparative study of the Romantic movement. French composition. Newton's French Daily Life, Vigny's

Le Cachet Rouge, Hugo's La Chute. Prerequisite, French 3. Professor Dora. 4 hours.

French 5a. Realism and Naturalism: Balzac's Pere Goriot, Pailleron's L'Etincelle and Le Monde ou l'on s'ennuie, Labiche's La Cigale, Maupassant's Les Prissoniers,Zola's L'Attaque du Mouliu, Daudet's Le Petit Chose, Flaubert's Salammbo. Prerequisite, French 2. Professor Dora. 4 hours.

French 6b. Victor Hugo: Study of life and representative works. Professor Dora. 2 hours.

French 7a. Edmond Rostand: A critical study of L'Aiglon, Les Romanesques, La Princesse Lointaine, La Samaritaine. Collateral reading of Chantecler, Cyrano de Bergerac, Un Soir a Hernani, etc. Reports, Lectures on contemporary authors. Prerequisite, French 4. Professor Dora. 2 hours.

French 8b. French Lyric Poetry: Canfield's French Lyrics. Study of the Parnassiens, Decadents, Symbolistes and contemporary writers. Hugo, A. de Musset, Verlaine, Lisle, Bourget, Daudet, Prudhomme, Gautier, Vigny, Rousseau, Lamartine. Prerequisite, French 4 or equivalent. Professor Dora. 2 hours.

French 9a. Scientific French: This course is intended primarily for students of the sciences. The object is to lead the student to understand both the spoken and written language, and to enable him to read easily at sight scientific magazines and technically scientific works as well as to write with a fair degree of accuracy upon scientific themes. Bowen's First French Scientific Reader, Muller's Grandes Decouvertes Modernes, collateral readings. Professor Dora. 2 hours.

French 10b. Maurice Maeterlinck: A study of the dramas and essays of this author, his mystical symbolism and influence. Le Tresor des Humble, Pelleas et Melisande, L'Intruse, Alladine et Palomides. La Mort de Tintagiles, L'Oiseau Bleu. Lectures and discussions. Open to students of sufficient preparation. Professor Dora. 2 hours.

French 11a. Lectures Upon Nineteenth Century Authors: Hugo, A. de Musset, Vigny, Gautier, Coppee, Merimee, and others. This course may be taken alone or in connection with French 5. Prerequisite, French 4 or equivalent. (Given in alternate years. Given in 1914-15.) Professor Dora.

For Undergraduates and Graduates

French 100b. History of French Literature: Required of all major students. Fortier's Literature Francaise, Kastner and Atkin's History of French Literature, and reference work from Lanson's Literature Francaise. Special attention given to eighteenth century authors, Voltaire, Rousseau, Marivaux, Montesquieu, Beaumarchais, Le Sage.

Students will write on completion of this course a monograph embodying the results of their work in certain assigned branches of the subject. Prerequisite, French 4. (Given in alternate years. Given in 1913-14.) Professor Dora. 4 hours.

French 101a. Classicism: Study of political, social, and literary history of the seventeenth century. Lectures upon the French salon, French Academy, and famous personages of the age. Corneille's Polyeucte, Horace, Le Cid; Moliere's L'Avare, Les Precieuses Ridicules, Les Femmes Savantes; Racine's Athalie, Iphigenie, Adromaque, Les Plaideurs. Prerequisite, French 4. Professor Dora. 2 hours.

French 103a. Seminary in French Literary Criticism: Sainte-Beuve, Renan, Taine, Brunetiere, France and Faguet. Professor Dora. 2 hours.

Education 134a. Teacher's Course in French: Study of methods of teaching French in secondary schools. Analysis of texts adapted to high school work. Special study of phonetics, with use of the Gersiri charts. Review of grammar; study of style; practice in teaching. Professor Dora. 2 hours.

ITALIAN

Italian 1a. Elementary Italian: Grammar, composition, and reading of modern authors. Mr. Gimeno. 4 hours.

Italian 2b. Elementary Italian: Continuation of Italian 1. Mr. Gimeno. 4 hours.

SPANISH

Primarily for Undergraduates

Spanish 1a. Elementary Spanish: Constant drill in pronunciation, the conjugations, and spoken Spanish. Practice in writing from dictation. Reading of short stories of moderate difficulty. Elementary composition. Assistant Professor Curtis. 4 hours.

Spanish 2b. Intermediate Spanish: Reading of modern prose, such as selections from the writings of Alarcon's Galdos, Valdes, Bazan, etc. Study of special grammatical constructions. Assistant Professor Curtis. 4 hours.

Spanish 3a. Modern Spanish Literature: Portions of the prose and verse of Alarcon, Galdos, Pereda. Valera, Bazan. Fernan Caballero, Echegaray, and N'runez de Arce will be read. Parallel readings and reports. Assistant Professor Curtis. 4 hours.

Spanish 4b. Advanced Spanish Literature: Continuation of Spanish 3. Selected readings from Calderon, Lope de Vega, Tirso de Molina, and Cervantes' Don Quixote. Themes and special reports. Assistant Professor Curtis. 4 hours.

Spanish 5a. Composition: Systematic practice in speaking

and writing Spanish. Spanish correspondence. Themes and essays in Spanish. This course may be taken to supplement Spanish 3. Assistant Professor Curtis. 4 hours.

Spanish 6b. Advanced Composition: A continuation of Spanish 5; it may be taken to supplement Spanish 4. Assistant Professor Curtis. 4 hours.

SOCIOLOGY

Professor Dowd, Assistant Professor Adams, Professors Paxton and Lane

Sociology 1 and 2 may not count as major.

Sociology 1a. Elements of Sociology: A study of the factors that determine social life, such as climate, flora and fauna, and inherited psychological characteristics. The origin and development of social institutions such as government, law, the family, economic organizations, religion, art, education, ceremonies, and customs are investigated. Lectures and assigned readings. Professor Dowd and Assistant Professor Adams. 4 hours.

Sociology 2b. Practical Social Problems: A study of the application of general sociological principles to the solution of current problems. The subjects investigated are the slums of New York, London, Chicago, and Philadelphia; poverty, its causes and remedies; unemployment; the tenement house reform; municipal and domestic sanitation; pure food regulation; industrial education for the masses; the liquor traffic; social settlement work; the organization of charity; care of the blind, deaf, insane, and the sick; prevention, punishment and reformation of crime, etc. Lectures and assigned readings. Professor Dowd. 4 hours.

For Undergraduates and Graduates

Sociology 100b. Criminology: A study of the causes, prevention, and treatment of crime, including an investigation into the hereditary, anthropometrical, psychological, and sociological factors; the relation of crime to genius and insanity; criminality and degeneracy among artists, musicians, painters, poets, inventors, and reformers; relation of crime to political and social conditions, epochs, occupation, sex, race, and climate, etc. Lectures and assigned readings. Professor Dowd. 2 hours.

Sociology 101a. Modern Race Problems: A study of the negro, Indian, Mongolian, and Jew, in the light of their racial origin and characteristics; the causes of race conflicts and the means of avoiding and remedying them. The object of this course is to discover the characteristics in each race which may be advantageously assimilated

by all and those which require modification and elimination; to equip students who may enter commercial life, law, politics, and public service with such knowledge of these races as will make for the uplifting of each and the harmony of all. Lectures and assigned readings. Professor Dowd. 2 hours.

Sociology 102a. Social Evolution: A study of the development of society from the savage state to the present, in respect to the economic, familial, political, aesthetic, and religious life, racial heredity, physical and social environment as modifying factors. A comparative study is made of the civilization of the Mexicans, Egyptians, Greeks, Romans, French, Germans, and Americans. The main object is to ascertain the social causes and laws, and to apply the underlying principles thus discovered to whatever is abnormal or retrogressive. Professor Dowd. 4 hours.

Sociology 103b. Ethnology: A study of the human races, their physical, intellectual, and social peculiarities. Origin and differentiation of races; the conflict and survival of races; influence of geographical and physical environment. Lectures and assigned readings. (Given in alternate years. Given in 1913-14.) Professor Dowd. 2 hours.

Sociology 104b. Anthropology: A study of man in the light of crahaeology, physical anthropology, and sociology; his stature and proportions, form of head and development of brain; his mental and moral organization; the origin of his speech, language, writing, inventions, implements, musical instruments, songs, folklore, painting, drawing, sculpture, customs, ceremonies, etc. (Given in alternate years. Given in 1914-15.) Professor Dowd. 2 hours.

Classical Archeology 1a. Private Life of the Greeks: Archeology 1a. Text-book and lectures, illustrated with photographs and lantern slides. See Classical Archeology. Professor Paxton. 2 hours.

Classical Archeology 2b. Private Life of the Romans: See Classical Archeology, Professor Paxton. 2 hours.

Zoology 104a. Heredity and Variation: See Zoology. Professor Lane. 2 hours

Primarily for Graduates

Sociology 200b. History of Sociological Thought: A study of the principal sociological writers in France, Germany, England, and the United States from the sixteenth century to the present. Professor Dowd. 2 hours.

Sociology 201a. Sociological Aspects of Art: A study of the origin and development of the fine arts among the different races and nations, investigations of the development of the characteristic national traits and the manner in which they are expressed in art; the re-

lation of art to morals, to idealism, and to economic progress; the causes of degeneracy in art, etc. Professor Dowd. 2 hours.

ZOOLOGY

Professor Lane

The courses in zoology are planned to give the student a thorough knowledge and understanding of the fundamental facts and theories of the science so that he may be well equipped either for teaching or for investigation.

Zoology 1 and 2 are general culture courses designed to fulfill the group requirement and are prerequisite to all other courses in the department; they may not be counted as major work. The prospective high school teacher should take Zoology 1 and 2 as the minimum necessary for his preparation in this subject; in addition he will find it highly advantageous to pursue Zoology 100, 101, 102, 103, and Education 137b. Pre-medical students should have Zoology 1 and 2, which conform to the recommendations of the American Medical Association.

Primarily for Undergraduates

Zoology 1a. General Zoology: A survey of the fundamentals and generalizations of the science of zoology with special regard to the laws of life, the relationships of living things, and such biological problems as are more or less intimately related to human progress and culture. The laboratory work consists of the study of a series of invertebrate types from the standpoints of structure, life history, and biological relations. Deposit required. 4 hours.

Zoology 2b. General Zoology: A continuation of the preceding course, but dealing with the vertebrates. The laboratory work consists of the study of the fish, frog, and such other types as the time may allow. May be taken by students who have not had Zoology 1. Deposit required. 4 hours.

Zoology 100a. Invertebrate Zoology: An advanced study of the development, classification, and natural history of the invertebrates. Lectures, recitations, assigned readings, and dissection of a number of types of representative invertebrates. Deposit required. Prerequisite, Zoology 1 and 2. Parker and Haswell, Textbook of Zoology, Vol. I., and Drew, Laboratory Manual of Invertebrate Zoology. (Given in alternate years. Given in 1913-14.) 4 hours.

Zoology 101b. General Entomology: A study of the life histories, classifications, and economic relations of insects. Each student is required to make a collection and determine one hundred species of insects. Dissection of representatives of the principal orders. De-

posit required. Prerequisite Zoology 1 and 2. Comstock, Manual for the Study of Insects. (Given only in summer.) 4 hours.

Zoology 102a. Vertebrate Zoology: An advanced study of the structure, classification, natural history, and paleontology of the vertebrates. Lectures, recitations, assigned readings, and dissection. Deposit required. Prerequisite, Zoology 1 and 2. Parker and Haswell, Textbook of Zoology, Vol. II, and various laboratory guides. (Given in alternate years. Given in 1914-15.) 4 hours.

Zoology 103b. Vertebrate Embryology: A study of the essentials of vertebrate embryology with special regard to organogeny in the chick, pig, and man; use is made of whole mounts of embryos, sections, dissections, and models. Deposit required. Prerequisite, Zoology 1 and 2. Bailey and Miller, Textbook of Embryology. 4 hours.

Zoology 104a. Heredity and Variation: A course of lectures, assigned readings, and reports on heredity and variation, including such topics as the physical basis of heredity, theories of heredity, Mendelism, law of ancestral inheritance, the practical application of known principles of heredity to the problems of the animal breeder, eugenics, and the modification of animals by hereditary, environmental, and other influences. Open only to those who have had Zoology I and 2 or equivalent. 4 hours.

Education 137b. Teachers Course in Zoology: A course designed particularly for prospective teachers of nature study in the public schools or of zoology in high schools. Lectures on such topics as: the history of zoology; the pedagogical value and methods of the science, especially in its relation to secondary education; outlines of courses for public school and high school curricula; the collection and preservation of zoological material, etc. In the laboratory, each member of the class is given practical experience in teaching zoology, together with a critical consideration of his material and method. There will be occasional field trips on Saturday mornings for the demonstration of collecting methods. Prerequisite, Zoology 1 and 2. 2 hours.

Primarily for Graduates

Zoology 200a. Advanced Zoology: Problems in research. Lectures and laboratory. Deposit required. Credit and hours to be arranged with the instructor.

Zoology 201b. Advanced Zoology: Problems in research. Lectures and laboratory. Deposit required. Credit and hours to be arranged with the instructor.

Zoology 200 and 201 consist of lectures on the nature of research in zoology, the problems to be solved, methods and technic of attack, bibliography, etc. Each student is assigned a problem suited to his capacity and training, and is guided to its solution with the purpose in view of the presentation of a creditable and original thesis.

THE SCHOOL OF FINE ARTS

FACULTY

Stratton Duluth Brooks, A. M., LL. D.
President of the University.

Fredrik Holmberg, B. M.
Dean of the School of Fine Arts, Professor of Music.

Roy Gittinger, A. M.
Professor of English History.

Theodore Hampton Brewer, M. A.
Professor of English Literature.

Lucile Dora, M. A.
Professor of Romance Languages and Literatures.

John Chester Darling, M. S., M. D.
Physical Director.

Roy Temple House, A. M.
Professor of the Germanic Languages and Literatures.

Elva Ellswoth Dungan.
Associate Professor of Piano and Public School Music.

Charles Francois Giard.
Associate Professor of Piano and Theory of Music.

George Seymour Lenox.
Associate Professor of Voice.

Merle Edelweiss Newby, B. M.
Associate Professor of Violin.

Patricio Gimeno, B. A.
Assistant Professor of Art, Instructor in Italian.

Burton Frank Tanner, B. L.
Assistant Professor of Public Speaking.

Lloyd Burgess Curtis, B. S.
Instructor in Band Instruments, Leader of the University Band, Assistant Professor of Spanish.

Lewis Spencer Salter, B. M.
Instructor in Piano and Theory of Music.

Nellie May McGinley.
Instructor in China Painting.

George William Schmidt, B. M.
Instructor in Voice.

THE SCHOOL OF FINE ARTS

The School of Fine Arts offers:

a. Four years' work in the theory of music in piano, in voice, and in violin, leading to the degree of Bachelor of Music.

b. Four years' work in drawing and painting. No degree is offered for this work.

c. Courses in violoncello, cornet and other band and orchestra instruments, expression and dramatic art, and watercolor and china painting.

d. Graduate work in piano, voice, and violin for those who desire to make public performances and repertoire a specialty. No degree is offered for this work.

e. Preparatory work in piano, voice, and in violin.

Recitals, Concerts, Etc: The work of the year is interspersed with concerts and public and private recitals. The situation of Norman makes it possible for some of the best musicians to visit the city.

The School of Fine Arts is housed on the third floor of the new University Hall. The studios and class rooms, especially fitted for the work, are large, commodious, and sound proof.

Organizations: Such organizations as the orchestra, band, glee club, and the like are maintained each year.

The orchestra meets twice a week and is open to all students who can satisfy the entrance requirements. Several concerts are given during the season.

The choral union has for its object the study of standard oratorios and the large choral works. It meets once a week during the second semester. "The Messiah," or some other oratorio, is given annually.

The band furnishes music for the various athletic meets, besides assisting in concerts during the year. Two rehearsals are held each week.

The glee club is an organization for young men. Membership is decided by competition. Two rehearsals are held each week.

The women's chorus meets twice a week during the first semester.

An opera is given each season by university talent.

Render Medal: Through the courtesy of Samuel P. Render, Esq., of Lawton, Oklahoma, the School of Fine Arts is holder of a gold

medal to be contested for annually. This medal is presented to the student who has made the highest grade in the study of harmony.

Concert Companies: Concert companies consisting of members of the faculty of the School of Fine Arts and advanced students are organized for the purpose of giving concerts on the university extension circuits.

Trips are also arranged for the different musical organizations such as the orchestra, the band, the glee club, and the quartettes.

DEGREES

Upon the satisfactory completion of the prescribed and elective studies in music as outlined below, the candidate will receive the degree of Bachelor of Music B. M., qualified by the department in which the major work has been done.

Certificate for Musical Supervisors

Upon satisfactory completion of the following courses, candidates will be granted a Certificate as Supervisors of Public School Music:

Music 1, 5, 6, 8, and 9, Education 139 and 140, Group 1 in Voice and English 1 and 2.

Certificate in Art

Upon satisfactory completion of the courses outlined in the history and applied art candidate will receive a Certificate as Teacher of Art.

ADMISSION

Applicants may be admitted to the School of Fine Arts as candidates for a degree, as unclassified students, or as preparatory students. Candidates for a degree are admitted either to first year work without condition, or to advanced standing.

Admission to First Year Work

Applicants for admission to first year work should be at least sixteen years of age and should be graduates of a high school or have had an equivalent training.

The requirements except in technical or applied work are usually stated in units. A unit is defined as one-fourth of an average year's work.

The requirements for admission are given below in units:

English	3	UNITS
One Foreign Language	2	"
History	1	"
Algebra	1	"
Electives	8†	"
	15	

†For admission to the courses in music six of these eight elec-

tive units must be in prescribed technical work in music as described below.

1. For admission to the courses in piano or in voice students must have completed Landon, Bertini, Berger, Vogt; two Clementi Sonatinas, two Kulau Sonatinas. They must be able to play easy compositions such as Schumann's "Happy Farmer," Schumann's "The Wild Horseman," Gurlitt's "Consolation," Saeboeck's "Lullaby," Godard's "Waltz," Bohm's "Mazurka," Kjerulf's "Cradle Song," Barilli's "Cradle Song." The equivalent of any of the above may be substituted.

For the satisfactory completion of this work six admission units are granted.

2. For admission to the courses in violin students must have completed Henning's Violin School, Part I and Part II, Kayser's Etudes, Book I and II, Maza's Special Studies, and Dancla's Six Air Varies, or the equivalent of any of the above mentioned works.

For the satisfactory completion of this work six admission units are granted.

Credit for the above described preparatory courses in music is given only on examination. Candidates who cannot secure admission credits in music may take these courses in the university but without university credit.

A description of all work that may be offered to satisfy the required or elective units as well as a statement of the ways in which credit may be secured for work done in high school may be found in the university catalogue, under the head of "Admission."

Preparatory Students

Students taking preparatory courses in music outlined above will be classified as preparatory students in the School of Fine Arts.

Unclassified Students

Students who have credit for the required admission units in music but who are otherwise deficient in entrance requirements will be enrolled as unclassified students and allowed to take such technical work in music as may best suit their needs.

Advanced Standing

Applicants may secure advanced standing for technical or applied work in this school only with the approval of the department concerned. Advanced standing for academic subjects is given under the regulations adopted for the College of Arts and Sciences.

FEES AND DEPOSITS

Tuition is free for all courses offered in the School of Fine Arts except that charges are made for individual lessons as follows.

For preparatory music, two thirty minute lessons a week, $18.00, $27.00, and $36.00 a semester depending on which instructor is chosen.

For applied music (piano, voice, violin) Groups I, II, or III, two thirty minute lessons a week, $18.00, $27.00, and $36.00 a semester depending on which instructor is chosen.

For instruction in band and orchestra instruments, two thirty minute lessons a week, $18.00 a semester.

For water-color or china painting, daily lessons, $27.00 a semester.

For courses in expression, first, second, or third year, two thirty minute lessons a week, $27.00 a semester.

Fees are payable strictly in advance and no lessons will be given until a receipt from the financial clerk is presented to the instructor.

Fees are not refunded except when a student must discontinue his lessons for unavoidable cause.

Students absent from more than one-third of the lessons for which they are enrolled in applied music or expression will be dropped and no fees will be refunded.

In the courses of drawing and painting, students must pay for their own material.

PIANOS FOR PRACTICE

Pianos for practice may be rented from music houses for use one hour a day at a cost of $0.75 to $1.00 a month; for two hours a day at a cost of $1.50 to $2.00 a month. A piano for exclusive use of one or more pupils will cost from $3.50 to $5.00 per month.

SPECIAL RULES AND REGULATIONS OF THE SCHOOL OF FINE ARTS

Students regularly enrolled in the School of Fine Arts will not be permitted to take more than twelve hours of work besides the technical (or applied) work in music, expression, or art. Eight hours shall be considered average work. This rule will be waived only in exceptional cases, and then only by a three-fourths vote of the faculty of the School of Fine Arts. No student who has received a mark of failure, or who has a condition that is not removed on or before the first Saturday of the following semester, shall enroll for more than seven hours outside of the technical work in music, art, or expression.

No student is permitted to take part in any public performance without the consent of the instructor. A student violating this rule

will not be given credit for work done in applied music or expression during the semester in which the rule is violated.

Lessons falling on legal holidays will not be made up except by special arrangement with the instructor.

Lessons missed through a student's own negligence will not be made up.

The art department reserves the right to keep drawings, paintings, etc., done by students, for the university art collection. A student taking away drawings and paintings without permission will not receive credit for the specimens of work taken away.

Students in applied music are required to attend rehearsals and take part in public performances connected with the university when the faculty of the School of Fine Arts thinks it will benefit the students. This rule will be strictly enforced, and students violating the same will be conditioned in applied music until such student becomes regular in this work. Graduate students violating this rule will be dropped from the course.

Students in the School of Fine Arts are not charged fees for applied music during the senior year in the particular branch in which they major.

No fees are charged for the first year of graduate work.

All work in applied music and art catalogued in Group IV must be completed in residence with an instructor regularly employed by the university. No degree will be given in violation of this rule.

RULES FOR RECITALS

Students regularly enrolled in applied music courses in the School of Fine Arts must attend at least two-thirds of the number of pupils' recitals given each semester. Students enrolled in any other college or school in the university and taking applied music in the School of Fine Arts are required to attend at least one-half of the number of pupils' recitals given each semester. Students violating this rule are conditioned in applied music until the deficiency is corrected.

The above rules do not apply to any musical entertainments where admission is not free.

CREDIT FOR WORK DONE IN MUSICAL ORGANIZATIONS

Credit will not be given to any student for work in musical organizations until such student has been a member of an organization for one semester. After the above requirements have been fulfilled credit may be received towards a B. M. degree as follows:

For work in orchestra 1-2 hour credit a semester.

For work in glee club 1-2 hour credit a semester.

For work in band 1-2 hour credit a semester.

For work in chorus 1-2 hour credit a semester.

Absences from rehearsals will be checked against a student in this work under the rules that govern work in regular classes of the university.

Not more than four hours credit for work done in any one of the above mentioned organizations will be granted towards a degree.

ENROLLMENT AND CHANGE OF STUDIES

At the time of enrollment each student must obtain a certificate of registration in person from the registrar. He must then consult with his adviser in regard to his work and receive a statement, signed by the adviser, of the classes in which he is enrolled. This statement must then be presented to the treasurer and all fees and deposits must be paid. The statement will then be filed with the registrar who will issue cards of admission to the several classes. A student is not a member of a class until the instructor in charge has received the card of admission. Students are not permitted to attend a class for which they are not enrolled.

Students may enroll in applied or technical work in music, expression, or art, at any time in a semester, but if they wish to complete regular courses they should enter at the beginning of a semester.

Students must enroll in theoretical courses in music or art at the beginning of the semester, except as provided for in the rules for "Change of Studies."

Change of Studies

A student desiring to drop a study, or to take up a new one after his enrollment card has been filed with the registrar, must present to the dean of the school a petition for change. After the first week from the opening of a semester changes in enrollment are not permitted except for extraordinary reasons.

No student will be allowed to change from one school or college to another except upon the approval of each dean concerned, and such changes will not be granted later than two weeks after the opening of the semester.

OUTLINE OF COURSES IN MUSIC

OUTLINES OF COURSES LEADING TO B. M. DEGREE IN THEORY OF MUSIC

Candidates for the B. M. degree in theory of music must complete Groups I, II, and III in piano, in voice, or in violin, in addition to the courses in the following outline.

Freshman Year

First Semester	Hours	Second Semester	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (History of Music)	2	Music 6 (History of Music)	2
English 1	4	English 2	4
Public Speaking 1	2	Public Speaking 2	2
Physical Training 1 or 51	1	Physical Training 2 or 52	1
	13		13

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1 or French 1	4	German 2 or French 2	4
Elective	2	Philosophy 109b	2
	8		8

Junior Year

Music 100 (Canon)	2	Music 101 (Fugue) or Music 104 (Musical Analysis)	2
Music 7 (Musical Forms)	2	Elective	2
Music 102 (Instrumentation)	2	Music 103 (Instrumentation)	4
	6		8

Senior Year

Music 105 (Composition)	4	Music 106 (Composition)	4
Music 107 (Adv. Hist. of Music)	2	Music 108 (Adv. Hist. of Music)	2
Elective	4	Music 109 (Adv. Instrumentation	2
	10		8

OUTLINE OF COURSES LEADING TO B. M. DEGREE IN PIANO OR IN VIOLIN

Candidates for the B. M. degree in piano, or in violin, must complete Groups I, II, III, and IV in piano or in violin in addition to the courses in the following outline:

Freshman Year

First Semester	Hours	Second Semester	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (Hist. of Music)	2	Music 6 (Hist. of Music)	2
English 1	4	English 2	4
Public Speaking 1	2	Public Speaking 2	2
Physical Tr. 1 or 51	1	Physical Tr. 2 or 52	1
	13		13

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1 or French 1	4	German 2 or French 2	4
Elective	2	Philosophy 109	2
	8		8

Junior Year

Music 100 (Canon)	2	Music 101 (Fugue) or Music 104 (Musical Analysis)	2
Music 7 (Musical Forms)	2		
Elective	2	Elective	2
	6		4

Senior Year

Music 109 (Instrumentation)	2	Music 110 (Instrumentation)	4
Elective	2		
	4		4

OUTLINE OF COURSES LEADING TO B. M. DEGREE IN VOICE

Candidates for the B. M. degree in voice must complete Groups I, II, III, and IV in voice in addition to the courses in the following outline.

Freshman Year

First Semester	Hours	Second Semester	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (Hist. of Music)	2	Music 6 (Hist. of Music)	2
English 1	4	English 2	4
Public Speaking 1	2	Public Speaking 2	2
Physical Tr. 1 or 51	1	Physical Tr. 2 or 52	1
	13		13

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1	4	German 2	4
Elective	2	Philosophy 109	2
	8		8

Junior Year

Music 100 (Canon)	2	(Music 104 Musical Analysis)	2
Music 7 (Musical Forms)	2		
French 1	4	French 2	4
	8		6

Senior Year

Music 109 (Instrumentation)	2	Music 110 (Instrumentation)	4
Italian 1	2	Italion 2	2
Elective	2		
	6		6

OUTLINE OF COURSES LEADING TO CERTIFICATE IN ART

Freshman Year

First Semester	Hours	Second Semester	Hours
Art 1	4	Art 2	4
Art 9	2	English 2	4
English 1	4	German 2	4
German 1	4	Physical Training 2	1
Physical Training 1	1	Elective	2
	15		15

Sophomore Year

Art 3	4	Art 4	4
Art 11	2	Art 12	2
French 1	4	French 2	4
History 61	4	Elective	4
	14		14

Junior Year

Art 5	4	Art 6	4
Art 13	2	Art 14	2
History 63	2	Classical Archaeology 4	2
Public Speaking 1	2	Public Speaking 2	2
Elective	6	Philosophy 109	2
		Elective	4
	16		16

Senior Year

Art 7	4	Art 8	4
Italian 1	2	Italian 2	2
Elective	10	Elective	10
	16		16

DESCRIPTION OF COURSES

Students in the College of Arts and Sciences may elect courses in the history and theory of music and the history of art, the total credit not to exceed 27 hours, of which 21 hours may be music and 6 hours art.

Courses marked a are first semester courses. Courses marked b are second semester courses.

HISTORY OF ART

Assistant Professor Gimeno

Art 11a. The History of Painting: The history of painting to the end of the fifteenth century. Text and lectures. 2 hours.

Art 12b. The History of Painting: The history of painting from the end of the fifteenth century to the present time. A special study will be made of modern painting. Richard Wuther's "History of Modern Painting" will be read as reference. Text, readings, and lectures. 2 hours.

Art 13a. The History of Sculpture: A brief survey of the history of sculpture from ancient times to the present. Text and lectures. 2 hours.

Art 14b. The History of Architecture: A brief course in the history of architecture from ancient times to the present. Text and lectures. 2 hours.

THEORY AND HISTORY OF MUSIC

Professor Holmberg, Associate Professor Dungan, Associate Professor Giard, Mr. Salter

Primarily for Undergraduates

Music 1a. Harmony: A study of the fundamental principles of music, beginning with the origin and development of scales and intervals. Practical work in connecting simple chords, chords of the seventh, augmented triads, augmented sixths, and cadences. Special attention will be given to simple harmonic phrasing and ear training. Harmony, by Emory, Prout, and Richter. Mr. Salter. 4 hours.

Music 2b. Harmony: A continuation of Music 1. A study of modulations, suspensions, anticipations, appogiaturas, passing notes, organ point, choral writing, and accompaniment. Most of the work in

this course will consist of original exercises. Texts for reference, Harmony, by Jadassohn, Richter, and Chadwick. Mr. Salter. 4 hours.

Music 3a. Counterpoint: The principles of harmony are applied to melodious treatment of several parts in combination. Chorals and melodies are harmonized with free use of passing notes, etc., with and without cantus firmus. Original work in free composition in the smaller forms. Prerequisite, Music 1. Associate Professor Giard. 2 hours.

Music 4b. Counterpoint: A continuation of Music 3. Special study in free and double counterpoint, imitative counterpoint, and inventions. Vocal counterpoint and choral works. Original exercises in composition. Prerequisite, Music 1, 2, and 3. Associate Professor Giard. 2 hours.

Music 5a: History of Music: This course embraces a systematic study of the origin and development of music of the ancient oriental nations, the music of the early Christian age, the beginning of polyphony, and the musical sovereignty of the Netherlanders. This is a literary course and does not require any special musical training. Text and readings. Mr. Salter. 2 hours.

Music 6b. History of Music: This course consists of a study of the music of the sixteenth century and the historical development of secular and sacred music of the classic, romantic, and modern schools. Lectures and readings. An aeolian orchestrelle is used to illustrate the great masterworks. Mr. Salter. 2 hours.

Music 7a. Musical Forms: A study of the origin and development of the various musical forms, including designs, the phrase and section, song forms of one, two, and three periods, applied song forms, the old dance forms, the suite, the sonata form, rondo forms, the overture, the concerto, vocal forms, modern dance forms, etc. For reference, texts by Prout, Elson, and Pauer. An aeolian orchestrelle is used to illustrate the larger works. Prerequisite, Music 1 and 2. Associate Professor Giard. 2 hours.

Music 8a. Public School Music: This course is designed for students who expect to combine the teaching of other branches with the subject of music in the public schools. The work consists of a study of the technical points to be presented in the school and the practice of songs suitable for school use. The course is open to all college students. No technical knowledge is required. Twice a week. Associate Professor Dungan. 1 hour.

Music 9b Public School Music: A continuation of Music 8. Special attention will be given to the art of conducting classes in four part singing, and no one will receive a passing grade in the course who does not thoroughly know the words and music of the most prominent

national songs of the United States Prerequisite, Music 8. Twice a week. Associate Professor Dungan. 1 hour.

For Undergraduates and Graduates

Music 100a. Canon: A study of canon in two or more parts: similar and contrary motion. Original work in composition in the larger forms. Prerequisite, Music 1, 2, 3, 4. Associate Professor Giard. 2 hours.

Music 101b. Fugue: The work consists of the analysis and composition of fugues in two, three, and four parts. Advanced forms of vocal and instrumental music will be composed by the students. Professor Holmberg. 2 hours.

Music 102a. Instrumentation: This course embraces lectures on the art of instrumentation with special reference to the compass, quality of tone, balance, and contrast of the various instruments. Exercise in simple orchestration. Books for reference by Beriloz, Prout, and Gavaert. Prerequisite, Music 1, 2 3, 4, and 7. Professor Holmberg. 2 hours.

Music 103b. Instrumentation: This is a continuation of Music 102. It requires practical work in orchestration in the larger musical forms, using for this purpose selections from the works of masters and the original compositions of the students. Professor Holmberg. 4 hours.

Music 104b. Musical Analysis: This course is offered to those who desire an analytical knowledge of musical composition from an intellectual and emotional standpoint. This course may be substituted for Music 101b. Prerequisite, Music 1, 2, 3, and 7. Four times a week. Professor Holmberg. 2 hours.

Music 105a. Composition: The work consists principally of original compositions and analytical studies of modern compositions, Prerequisites: Music 1, 2, 3, 4, 7 and 100. Associate Professor Giard. 4 hours.

Music 106b. Composition; A continuation of Music 105. Associate Professor Giard. 4 hours.

Music 107a. Advanced History of Music; A study of musical development of the twentieth century, and weekly reports on current musical events. Prerequisites Music 5 and 6. Professor Holmberg. 2 hours.

Music 108b. Advanced History of Music; A continuation of Music 107. Prerequisites Music 107. Professor Holmberg. 2 hours.

Music 109b. Advanced Instrumentation: Original compositions for orchestra, chorus, and orchestra, etc. Part of the time is used for analyzing modern orchestral scores. Prerequisites, Music 102 and 103. Professor Holmberg. 2 hours.

Education 139a. This course is designed for those who wish to

fit themselves for the special work of supervisors of music in public schools. It includes the following subjects; rote songs and their application to school work; elements of music as presented in the grades, and best methods of reading; study of the child voice; sight-singing and ear training. Prerequisite, Music 8 and 9. Associate Professor Dungan. 2 hours.

Education 140b. Teacher's Course in Music: Practice in teaching; elementary harmony and musical form as presented in the high school; the problems of the supervisor and how to meet them; interpretation of songs; art of conducting; practice in conducting. Prerequisite, Education 139. Associate Professor Dungan. 2 hours.

ENGLISH

Professor Brewer

English 1a. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence; daily and fortnightly themes. Required of all candidates for the bachelor's degree. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it.

The course is given in seven sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, and Mr. Wells. 4 hours.

English 2b. First Principles of English Composition: Lectures on words, with a study of selected examples of nineteenth century prose and poetry; daily and fortnightly themes at intervals, with a special study of the works of one writer. English 2 is a continuation of and presupposes English 1. Required of all candidates for the bachelor's degree.

The course is given in seven sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, and Mr. Wells. 4 hours.

GERMAN

Professor House

German 1a. Beginning German: Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Prerequisite, two years of foreign language. Becker-Rhoades' Elements of German and Bacon's Im Vaterland. Professor House and Associate Professor Voss. 4 hours.

German 2b. Beginning German: Bacon's Im Vaterland continued. Continuation of Becker-Rhoades' Elements of German. Prerequisite, German 1. Professor House and Associate Professor Voss. 4 hours.

HISTORY

Professor Gittinger, Associate Professor Floyd

History 9a. Mediaeval Europe: A survey of the period from the beginning of the middle ages to the close of the fifteenth century. Associate Professor Floyd. 4 hours.

History 59a. History of Greece: The oriental nations and Greece through the Persian invasions. The development and spread of Greek civilization to the Roman conquest. (Given in alternate years. Given in 1914-15.) Professor Gittinger. 4 hours.

PHYSICAL TRAINING

Director Darling, Miss Revell

Physical Training Ia. Marching, calisthenics, Indian clubs, and dumb-bells. Required of freshmen. Dr. Darling. 1 hour.

Physical Training 2b. A continuation of Course 1 with the addition of elementary work on heavy apparatus. Required of freshmen. Dr. Darling. 1 hour.

Physical Training 5Ia. Calisthenics, marching, folk and gymnastic games. Required of freshmen. Miss Revell. 1 hour.

Physical Training 52b. Calisthenics, marching, Indian clubs, wands, and gymnastic games. Required of freshmen. Miss Revell. 1 hour.

PSYCHOLOGY

Professor Phelan

Philosophy Ia. General Psychology: This is a general introductory course aiming to give the student a survey of the main problems, principles, and methods of psychology, either as a part of a liberal education or as a preparation for professional study in education, medicine, or law. The following topics will be treated: sensation, perception, attention, habits, association of ideas, memory, imagination, conception, judgment, reasoning, instinct, emotion, volition, and personality. This is a prerequisite to all courses in psychology and education. Lectures, recitations, assigned readings, reports, and experimental work. Pillsbury's Essentials of Psychology. Professor Phelan. 4 hours.

ROMANCE LANGUAGES

Professor Dora, Assistant Professor Gimeno

French Ia. Beginning French: Essentials of grammar, practice in colloquial French, prose composition, reading of easy texts. Special attention will be given to the French verb and to word order. Fraser and Squair's French Grammar, Super's French Reader, Merimee's

Colomba, and Halevy's L'Abbe Constantin. Given in two sections. Professor Dora. 4 hours.

French 2b. Intermediate French: Systematic study of grammar, French conversation, sight reading, parallel work. Fraser and Squair's Grammar, Cameron's Contes de Daudet, Merimee's Carmen, Scribe et Legouve's Bataille de Dames. Given in two sections. Professor Dora. 4 hours.

Italian 1a. Elementary Italian: Grammar, composition, and reading of modern authors. Mr. Gimeno. 4 hours.

Italian 2b. Elementary Italian: Continuation of Italian 1. Mr. Gimeno. 4 hours.

DESCRIPTION OF GROUPS

The prescribed technical work in each of the several departments is described below.

PIANO

Associate Professor Dungan, Associate Professors Giard, Mr. Salter, Miss----------

Courses Leading to he Degree of Bachelor of Music in Piano

Group I

Out of the following list of compositions, twelve must have been studied and four of the twelve must have been performed in public.

Mozart, Sonata C major
Gade, Aquarelles (3)
Jenson, The Mill
Scharwenka, op. 62
Hoffman, Mood Pictures
Schumann, op. 68 (5)
Wilm, At the Spinning Wheel

Group II

Out of the following list of compositions, twelve must have been studied, and four out of twelve must have been performed in public.

Hayden, Sonata E flat
Mozart, Sonata F major
Bach, Two Part Inventions (6)
Mendelssohn, Songs without Words (5)
Lavelle, Le Papillon
Litolf, Spinning Song
Raff, Fabliau
Rheinberger, Ballade A minor
St. Heller, op. 80, No. 1, 2

Group III

Out of the following list of compositions, twelve must have been studied, and four of the twelve performed in public.

Beethoven, Sonata op. 10, No. 2
Schubert, Sonata A major
Scarlatti, Sonata A major
Haesslor, Gigue D minor

Bach, Prelude and Fugue, No. 2
Bach, Partitas (Allamande, Courante)
Schumann, Papillons
Liszt, Consolations (2)
Grieg, op. 19
Moscheles, Preludes (8)
Chopin, Fantasie Impromptu
Chopin, Nocturne F minor
Chopin, Waltz C sharp

Group IV

Students may enter Group IV by examination only.

Out of the following list of compositions, a program lasting at least one hour must have been committed to memory, and performed in public. One-half of this program may be selected from the list given in Group III.

Beethoven, Concerto G major
Beethoven, Sonata op. 26
Beethoven, Sonata op. 28
Bach, Prelude and Fugue, No. 19
Bach, Italian Concerto
Chopin, Waltz in E minor
Chopin, Nocturne F sharp
Chopin, Etude E major
Chopin, Polonaise A major
Reinecke, Ballade A flat
Schumann, op. 12, Nos. 2, 3, 8, 12
Mendelssohn, Variation Serieuses
Raff, Fairy Tale
Liszt, Gnomenreigen

For any composition listed in the above four groups, a composition of equal merit may be substituted.

VOICE

Associate Professor Lenox, Mr. Schmidt

Courses Leading to the Degree of Bachelor of Music in Voice

Group I

Out of the following list of compositions, twelve must have been studied and four of these must have been performed in public.

Special vocalizes with teacher
Concone, op. 9
The Violet, by Mildenberg

Roses, by Lynes
Night Time, by Van de Water
Singing in God's Acre, by Brackett
Sweetheart, by Hawley
Ave Maria, by Raff
Red, Red Rose, by Hastings
The Old and the Young Marie, by Cowen
Loves Sorrow, by Shelly
Jean, by Burleigh

Group II

Out of the following list of compositions, twelve must have been studied and four of these must have been performed in public.

Special exercises in phrasing and technique by teacher
Marchesi, op. 21, Part III
The Dream, by Rubenstein
Polly Willis, by Arne
The Lass with the Delicate Air, by Arne
Oh! Dry those Tears, by Del Reigo
At Parting, by Rogers
Asthore, by Trotre
Calm as the Night, by Bohm
Because I Love You Dear, by Hawley
The Rosary, by Nevin
Nearer My God to Thee, by B. O. Klein
Over the Stars there is Rest, by Abt
My Dreams, by Tosti

Group III

Out of the following list of compositions twelve must have been studied and four of these must have been performed in public.

Advanced vocalizes and technique by teacher
Marchesi, op. 21, Part IV
I'll Sing Thee Songs of Araby, by Clay
My Heart at Thy Sweet Voice, by Saint Saens
Lullaby (from Jocelyn,) by Godard
Oh! Vision Entrancing, by Goring Thomas
I Love Thee, by Dudley Buck
Songs My Mother Taught Me, by Dvorak
The Message, by Blumenthal
Danny Deever, by Damrosch
Queen of the Earth, by Pinsuti
Spring Song, by Weil

For All Eternity, by Mascheroni
Ave Maria, Gounod
The Nightingale and the Rose, by Barnby
Orpheus with his Lute, by Sullivan
Among the Lilies, by Dana

Group IV

Students may enter Group IV by examination only.

Out of the following list of compositions, a program lasting at least one hour must be prepared, committed to memory, and performed in public. One half of this program may be selected from the list given in Group III.

Special advanced technique and tone coloring by teacher
Polonaise (from Mignon), by Thomas
Cavatina (from Faust), by Gounod
Bell Song (from Lakme), by Delibes
With Verdure Clad (from Creation), by Haydn
Toreador Song (from Carmen), by Bizet
Hear Ye Israel (from Elijah), by Mendelssohn
O, Rest in the Lord (from Elijah), by Mendelssohn
Onaway, Awake Beloved! (from Hiawatha), by Coleridge Taylor
No Torments now (from LeCid), by Messenet
Waft her, Angels (from Jephthah), by Handel
Be Thou Faithful unto Death (from St. Paul), by Mendelssohn
Celestial Aida (from Aida), by Verdi
Lend me your Aid (from Queen of Sheba), by Gounod
Elsa's Dream (from Lohengrin), by Wagner
It was not so to be (from the Trompeter), by Nessler
Sancta Maria, by Faure

For any composition listed in the above four groups, a composition of equal merit may be substituted.

VIOLIN

Associate Professor Newby

Courses Leading to the Degree of Bachelor of Music in Violin

Group I

Out of the following list of compositions twelve must have been studied and four of these must have been performed in public.

Maza's Brilliant Studies
24 of Kreutzer's 42 Etudes
David's Violin School, Part II, up to scales in octaves

Singer's finger excercises up to Ex. No. 72
Selections:
Three of DeBeriot's "Air Varies"
Two Wieniawski "Mazurkas"
"Legende in C Minor," Bohm
"Adagio," Beethoven's Sonata Pathetique
"Minuette," Boccerini
"Hungarian Dance," Brahms (Herman)
"Serenade-Badini," Gabriel-Maria
"Hungarian Idylle," Bela
"Hungarian Idylle," Bela
One Handel Sonata

Group II

Out of the following list of compositions twelve must have been studied and four of these must have been performed in public.
Kreutzer's 42 Etudes completed
28 of Fiorilla's 36 Etudes
David's Violin School Part II completed
Singer's Finger Exercises completed
Selections:
Two Handel Sonatas (not studied before)
"Concerto" No. 1, DeBeriot
"Concerto" No. 9, DeBeriot
"Chanson Polonaise," Wieniawski
" Romance in G," Swendson
"Largetto," Tartini
"Anitra's Dance," Grieg
"Spinning Song," Eberhart
"Bolero in A," Bohm

"The Bee," Schubert
"Cavatina," Raff

Group III

Out of the following list of compositions, twelve must have been studied and four out of the twelve must have been performed in public.
Kreutzer's 42 Etudes reviewed
Rhode's 24 Caprices
Maza's Artist Studies (all except 6)
Rovello's 12 Caprices
Tartini's 50 Variations (for bowing)
Spohr's Violin School, 65 first exercises

Selections:
"Concerto No. 7," DeBeriot
"Concerto No. 13," Kreutzer
"Concerto No. 22," Viotti
"Concerto No. 23," Viotti
"Concerto in A," Mozart
One Concerto, David
"Concerto No. 2," Spohr
Four Hayden Sonatas
Two Grieg Sonatas
"Legende" in G, Wieniawski
"Fantasie Caprice," Vieuxtemps
"Andante and Scherzo," David

Group IV

Students may enter Group IV by examination only.

Out of the following list of compositions, a program lasting at least one hour must be prepared, committed to memory, and performed in public. One half of this program may be selected from the list given in Group III.

Bach's Six Sonatas (no substitute will be accepted for these sonatas)
Alard's 10 Characteristic Etudes
Twelve of Paganini's 24 Caprices
David's Violin School reviewed
Selections:
"Concerto op. 61," Beethoven
"Concerto No. 2," Wieniawski
"Concerto op. 64," Medelssohn
"Concerto in G minor," Bruchs
"Concerto in D minor," Vieuxtemps
"Sonata op. 24," Sjoegren
"Kreutzer Sonata," Beethoven
"Ballade and Polonaise," Vieuxtemps
"Fantasie Appassionata," Vieuxtemps
"Elegy," Ernst
"Aria for G String," Bach
"Reverie in E flat," Vieuxtemps
"Ziganeur weissen," Sarasate
"Introduction and Rondo Cappriccioos," Saint Saens

For any composition listed in the above four groups, a composition of equal merit may be substituted.

DRAWING AND PAINTING

Courses Leading to the Certificate in Painting

Assistant Professor Gimeno, Miss McGinley

Art 1a. Drawing from geometrical solids. Elementary sketching from costumed models etc. 12 hours a week in Art Studio. 4 hours.

Art 2b. Drawing from plaster casts, sketching from costumed models, and mechanical drawing. 12 hours a week in Art Studio. 4 hours.

Art 3a. Drawing continued. Painting from still life. Sketching in colors from costumed models. 12 hours a week in Art Studio. 4 hours.

Art 4b. Drawing continued. Painting from still life and color sketching continued. Clay modeling. 12 hours a week in Art Studio. 4 hours.

Art 5a. Drawing from living models. Color sketching from living models. Landscape painting. 12 hours a week in Art Studio and outdoors sketching. 4 hours.

Art 6b. Drawing continue. Landscape and portrait painting. 12 hours a week in studio and outdoor sketching. 4 hours.

Art 7a. Five and twenty minute sketching from living models in charcoal and oil, landscape and portrait painting. 12 hours a week 4 hours.

Art 8b. Five and twenty minute sketching continued, oil portrait and landscape painting. Preparation of individual art exhibtion. 12 hours a week. 4 hours.

Art 9a. Perspective: The laws of perspective and their application for pictorial purposes. 2 hours.

Water-color and China Painting

Courses in water-color painting and china painting will be given to those desiring a knowledge of the technique of these two branches of art. No credit toward graduation will be given for this work.

Upon completion of the four year course prescribed in drawing and painting including prescribed work in theory and history of art and academic work, students are granted a certificate in "Art."

PUBLIC SPEAKING

Assistant Professor Tanner

The courses in public speaking are designed to given training along two general lines: first, interpretative reading and dramatic presentation; and second, composition and delivery of public addresses-debating, extemporaneous speaking, and oratory.

Those desiring to prepare for platform work or the teaching of reading should take courses 1, 2, 7, 8, 9, and 10; those desiring to at-

tain ease and naturalness in public address and a knowledge of the rhetoric of an oration should elect courses 1, 2, 4, 5, 6, English 5, and Education 138.

Private lessons in Expression may be arranged by those who wish to do more extended work than is possible in connection with class recitation. Such a course may be taken through a period of three or four years, leading up to the presentation of dramatic readings, lecture-recitals, or lectures.

Recitals will be arranged throughout the year which will afford opportunity for students to appear in public a number of times during each semester.

Public Speaking 1a. General Preparation: The fundamental principles of expression; correct and refined pronunciation, distinct articulation, the principles of gesture, pitch, tone, emphasis, and cadence. 2 hours.

Public Speaking 2b. General Preparation: A continuation of Public Speaking, 1, together with oratorical delivery. 2 hours.

English 5a. Argumentation and Debating: See the College of Arts and Sciences. 4 hours.

Public Speaking 4b. Debating and Extemporaneous Speaking: See the College of Arts and Sciences. 4 hours.

Public Speaking 5a. Advanced Public Speaking: See the College of Arts and Sciences. 2 hours.

Public Speaking 6b. Advanced Public Speaking: See the College of Arts and Sciences. 2 hours.

Public Speaking 7a. Dramatic Reading: A study in the oral interpretation of the masterpieces of literature. Material will be selected which will serve the peculiar needs of each individual, and also serve as a repertoire. Prerequisites, Public Speaking 1 and 2. 3 or 4 hours.

Public Speaking 8b. Dramatic Reading: A continuation of Public Speaking 7. 3 or 4 hours.

Public Speaking 9a. Dramatic Presentation: The study and oral interpretation of modern dramas and of Shakespearian drama. Analysis of plot, characters, and incidents. Scenes from plays will be given in class, leading up to a final public presentation of an entire play. Prerequisites, Public Speaking 1 and 2. 2 hours.

Public Speaking 10b. Dramatic Presentation: A continuation of Public Speaking 9. 2 hours.

For Undergraduates and Graduates

Education 138b. Teacher's Course: See the College of Arts and Sciences. 2 hours.

THE SCHOOL OF LAW

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

JULIEN CHARLES MONNET, A. M., LL. B.
Dean of the School of Law, Professor of Law.

HENRY HUBBARD FOSTER, A. B., LL. B.
Professor of Law.

JOHN BEGG CHEADLE, A. B., LL. B.
Professor of Law.

VICTOR HENRY KULP, PH. B., J. D.
Professor of Law.

WARREN A. SEAVEY, A. B., LL. B.
Professor of Law.

Special Lecturers

JESSE JAMES DUNN, LL. B.
Justice of the Supreme Court, Lecturer on Legal Remedies.

ROBERT LEE WILLIAMS, A. M., LL. D.
Justice of the Supreme Court, Lecturer on the Oklahoma Constitution.

SAMUEL W. HAYES.
Chief Justice of the Supreme Court, Lecturer on Legal Ethics.

HENRY MARSHALL FURMAN.
Justice of the Criminal Court of Appeals, Lecturer on Criminal Jurisprudence.

CHARLES B. AMES, A. B., LL. B.
Ex-Supreme Court Commissioner.

MALCOLM E. ROSSER, LL. B.
Supreme Court Commissioner.

THE SCHOOL OF LAW

The School of Law was organized in the fall of 1909 in response to a general demand that the university should provide opportunities and facilities for legal training equal to the best afforded elsewhere. Its aim is to inculcate a sound knowledge of the common law and equity, of English and American modifications in both substantive and adjective law, of constitutional law and federal procedure and of the statutes, decisions, and practice of the state of Oklahoma. It is now generally conceded that such a result can be attained more successfully in a law school than elsewhere. The busy lawyer finds little time for the systematic instruction of the student in his office. The result is the study tends to become desultory and unprofitable. In a law school the student has the constant help and direction of a body of trained teachers devoting their time and thought to his welfare. He has the inspiration that comes from friendly rivalry with his fellow students in the class rooms, in the quiz clubs, moot courts, and practice courts. He has the advantage of a more extensive library and of encouragement and special assistance in original investigation.

That such is the view of lawyers and judges generally is evidenced by the fact that a large and constantly increasing majority of candidates now come to the bar through the medium of law schools. Much may be said for the practical possibilities of office training, but law schools are more and more attempting, and with increasing success, to supply their former deficiencies in this regard. It is also true that those defects were never as great as has sometimes been alleged; and while it is possible though inconvenient for the young lawyer to supply them, it is nearly impossible for him to supply, after beginning actual practice, the systematic knowledge of the fundamental principles of law which the law school gives him the opportunity to acquire.

INSTRUCTORS

The School of Law, except as to the courses given by the special non-resident lecturers, is conducted by instructors who give practically their whole time and attention to university work. It is certain that the best results can be obtained in no other way. This is confirmed by the experience of the leading law schools of the country, all of

which now place their work of instruction on this basis. The teaching of law is in itself a scientific vocation requiring all of one's energies.

METHODS OF INSTRUCTION

Instruction in the class room is by comment, quiz, and colloquy. It consists largely of the analysis and discussion of cases. Instead of placing before the student a set of legal principles which he is required to learn, the much more difficult task is assigned him of reading the actual opinions contained in the reports and ascertaining therefrom the law involved. He is then required to apply that law to other cases, both hypothetical and actual. In so doing he is both assisted and criticised by the instructor who guides and coordinates the discussion toward a definite end. It is believed that by this method the power of legal reasoning, discrimination, and generalization is most fully developed, and at the same time the student is obliged to exercise the same mental processes and follow the same methods of argument as those required by the skillful advocate Copious references are continually made for extensive side reading, and students are constantly encouraged to use the library.

In the practice court, in the courses in civil procedure and criminal law and procedure, and elsewhere when deemed necessary, emphasis is laid on the law of this jurisdiction. The aim is to fit the student generally for practice in any state and to fit him especially for practice in the West and Southwest.

EXAMINATIONS

At the middle and end of each year careful examinations are given, designed to test the student's ability to apply his knowledge. Failures or conditions in more than one-third of the work carried will sever the student's connection with the school. It is within the discretion of the law faculty to reinstate such students on proper petition and showing. A student who receives a failure in any course must take the course over. All conditions received in either semester must be removed at examinations held for that purpose at the opening of the school, the following September. Students should arrange in advance for such examinations, which will be given but once and which will not be given to students enrolling late. Third year students will be given an opportunity to remove their first semester conditions at the time of the regular second semester examinations at the end of the year. In order to pass such examinations for the removal of conditions the student is required to manifest a higher proficiency than is sufficient in the original examination. Students failing to take the reg-

ular examinations or to remove their conditions will receive the grade "F". No special examinations will be held.

ENROLLMENT

The enrollment in the School of Law during the first four years of its existence has exceeded the expectations of all. The full three years' curriculum is now being regularly given. Students in the School of Law have all the advantages and privileges of other students in the university.

NEW LAW BUILDING

The new law building costing $125,000.00, now in process of construction will be complete and ready for occupancy at the opening of the session in September, 1913. It is 132 feet long and 55 feet wide with additional 14 foot entrance projections on the east and west. It is built in solid Bedford stone, its architectural lines following in the main those of University Hall. It is centrally located overlooking the oval, and constitutes one of the wings of the permanent group of buildings of which University Hall is the center. It has three stories and a basement and contains every feature necessary for a modern law school. This building is one of unusual beauty, solidity, and convenience. It is fireproof throughout. This building together with the provision made by the governing authorities of the university for large additions to the law library, and the law recently enacted providing for the exchange of Oklahoma law books with other states for the benefit of the law school library, places the School of Law on an equal footing with the state university law schools of other leading states and assures its rapid development and prosperity.

LIBRARY

About four thousand dollars worth of books and equipment have been purchased as an initial installment of the law library. These books have been carefully selected and the list contains most of the essentials. Other installments will be procured from time to time, as it is the purpose of the school to build up rapidly a library that will answer all the purpose of legal study and investigation. The leading law journals are kept constantly on file. A member of the law faculty has general supervision of the library, and student assistant librarians are in charge to give needed information and maintain order. The library is open during the day and in the evening.

Bulletin Board

A bulletin board is maintained on which all official notices are posted, and all such notices are considered personal notices to the student or students concerned.

SPECIAL LECTURES

Short courses of lectures will be delivered by the following persons and by others: A course by Chief Justice Jesse J. Dunn of the Supreme Court on legal remedies; a course by Justice Samuel W. Hayes of the same court on legal ethics; a course by Justice Robert L. Williams of the same court on the Oklahoma Constitution; a course by Justice Henry M. Furman of the Criminal Court of Appeals on criminal jurisprudence. Lectures by Supreme Court Commissioner Malcolm E. Rosser and Ex-commissioner Charles B. Ames on subjects to be selected. Most of these courses will be required of first year students.

PRACTICE COURT

In addition to the courses in pleading and practice, and the practical suggestions given throughout the courses by the the regular instructors and the special lecturers, a practice court is maintained in order to afford the student an opportunity of acquainting himself with the regular sequence of steps in litigation and of learning by actual experience what actions or proceedings should be brought, how to bring them, and how to handle the case until its close. Students act as attorneys, sheriffs, clerks, parties, witnesses, jurors, etc., and every effort is made to reproduce the conditions of actual practice in the Oklahoma courts. This work is supplemented by lectures pointing out errors and discussing questions of procedure of a more general nature applicable also to other jurisdictions. The presiding instructor is an attorney of experience and the aim is to supply as far as possible the actual working knowledge of trial procedure so that a graduate on leaving the school will be prepared at once to enter upon all phases of the work of the profession.

Third year men act as leading counsel, second year men as junior counsel, and first year men as jurors, officers, etc. Such practice court work is required of all students, and first year men may be given one hour's credit each semester for this together with the courses of special lectures.

LITERARY SOCIETIES

Students are encouraged to take an active part in the law literary societies, and to organize quiz clubs and club courts for legal discussion. The "Sooner Bar" and the "Chancery," literary societies organized by the law students, have for their objects the double purpose of training in public speaking and training in legal argumentation. The "Ames," "Monnet," and "Exchequer" club courts are very active and profitable organizations for the presentation and trial of questions of law.

PRIZES

American Law Book Company Prize: The American Law Book Company offers to a third year student a prize consisting of the first thirteen volumes of the Cyclopedia of Law and Procedure to be awarded at the discretion of the law faculty. This prize, valued at $97, the faculty has decided to award at the time of graduation to the most meritorious student in the third year class, taking into consideration the entire course. The award will be based on grades in examinations, class-room proficiency, ability in logical and succinct statement, interest displayed in club courts and other law school activities, use of the library, and strength of character.

The Callaghan & Company Prize: Callaghan & Company, Law Publishers, of Chicago, offer Andrews, American Law in two volumes as an annual prize to the student in the second year class who attains the highest proficiency and the best general average for the year.

PHYSICAL TRAINING

All students in the School of Law, who have not had one year of college work, or work in some other law school entitling them to one year's advanced standing, are required to take physical training to the extent of two hours during their course under the direction of the physical director of the university. Such "hour" represents approximately three hours of exercise a week during a period of time equal to one semester. Students engaging in special athletic activities are with the consent of the physical director allowed to substitute these for the regular physical training. This rule with reference to physical training is believed to make for well-balanced educational development.

ADMISSION AND GRADUATION

THREE YEAR COURSE

The work of the School of Law extends through three college years. There are three classes: the First Year Class, Second Year Class, and Third Year Class. Lectures and recitations are held on five days in the week, principally in the usual morning hours. Students may enter at the beginning of either semester. Late registration should be avoided.

ADMISSION

Applicants for admission to the School of Law must be at least eighteen years of age and must present evidence of having completed fifteen units of acceptable entrance credit. A unit is the standard amount of work required in a secondary school subject given thirty-six weeks with five recitation periods a week of at least forty-five minutes each. Thus fifteen units represent an ordinary four years' high school course.

The following units are required for admission to the School of Law:

English	3 units
Mathematics	2 units
*Electives	10 units
Total	15 units

*A description of all work that may be offered to satisfy the required or elective units as well as a statement of the ways in which credit may be secured for work done in high school may be found in the university catalogue, under the head of "Admission."

SPECIAL STUDENTS

Applicants, not less than 21 years of age and not candidates for the degree, who do not possess the above educational qualifications for admission of regular students, may be admitted to the courses in the School of Law provided they can satisfy the dean that they are prepared to carry the work successfully. Such students will be expected to conform to the same requirements as to attendance and examination and will be entitled to the same privileges as regular students. Certificates stating the branches completed and the standing

attained will be given to such students who have been in residence for a semester.

Such special students who have completed the curriculum and have been in residence three years may be recommended for a degree by special action by the law faculty, provided that they have displayed unusual ability and scholarship.

ADVANCED STANDING

Applicants qualified to enter the School of Law as candidates for a degree who have satisfactorily completed one or more years of resident work in law school of good standing having a three years' course will be given equivalent rank in this school upon presenting properly authenticated certificaes of such work. The right is reserved to give credit only on examination. All persons who intend to apply for advanced standing under the above rule should forward or present their credentials to the dean at least one week before the opening of the particular session which the student desires to attend.

Such certificate should show the length of time in semester hours given to each subject, the books used as the basis of instruction, the method of grading used in such school, the grades made by the applicant, and whether the school has a three years' course. Credit will never be given for more than two years' work done in other schools. No credit will be given for reading or work done elsewhere than in an approved law school.

GRADUATION

The degree of Bachelor of Laws (LL. B.) is conferred upon all regular students not less than 21 years of age who have completed the prescribed work of the course. This course requires three years for its completion and no student is allowed to graduate except after three years of actual residence, unless in case of admission to advanced standing, in which case he must likewise have spent sufficient time in some other acceptable law school having a three years' course, to amount to a total of three years when added to the time spent here. The time spent in residence at this law school must in every instance be at least one year. In exceptional cases the degree may be conferred on special students. See provisions as to special students.

LAW ELECTIVES—ADDITIONAL WORK

Under certain circumstances seniors in the College of Arts and Sciences may elect all or part of their last year's work in the School of Law in such a way as to enable them to secure the B. A., and the LL. B. degrees in six years instead of the seven regularly required. The

following regulation applies to such students together with all others pursuing courses in the School of Law, viz: No student in the School of Law who is taking the full course in law shall be allowed to take additional courses elsewhere at the same time except upon permission of the dean and petition to the faculty. No student shall be entitled to take such additional work as a matter of course, and no such petition will be granted unless he can convince the faculty that it will not decrease the amount of time spent upon his legal studies and that it will be for his best interest and the best interests of the School of Law. Students enrolled in the School of Law for more than half of the full law course shall likewise be entitled to take additional work elsewhere only on the above conditions.

ADMISSION TO BAR

Under statutory authority the Supreme Court of this state has prescribed and published rules governing admission to the bar. These rules require that the candidate must be of good moral character and over 21 years of age; and that he shall satisfactorily answer the written interrogatories propounded covering the subjects enumerated. These subjects are all included in the curriculum of the School of Law. As to educational qualifications and length of the period of legal study required candidates are referred to the rules. Examinations are held at convenient intervals and are conducted by a regular commission of bar examiners duly appointed by the Supreme Court.

By a recent ruling of the State Bar Commission graduates of the School of Law are admitted to the bar without examination. They may then be admitted on motion to practice law in the federal courts of this state.

EXPENSES

Tuition is free in the School of Law as in all other departments of the university. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

A fee of $5.00 for a student enterprise ticket will be collected from each student at the time of enrollment. This ticket entitles the student to admission to all lecture course numbers, debating, athletic, musical, oratorical, dramatic, and other general university affairs. The payment of this fee is not compulsory but it is expected that each student will purchase the ticket because of the many advantages accruing therefrom; it is necessary that every student buy one in order to make this plan of supporting student affairs a success. It is hoped,

therefore, that the loyalty of the students toward the general interests of the university will be such that there will be no requests for exemption from this payment.

BOARD, ROOMS, AND BOOKS

Board, including furnished rooms, can be had for from $4.00 to $6.00 a week. The average cost of living is as low in Norman as in any town of its size in the state. Board alone costs from $3.00 to $4.50. Rooms for two may be secured for $6 to $12 a month.

The cost of books used in the School of Law is about $35 a year.

If further information is desired as to any of the matters set forth in this catalogue, inquiries should be addressed to

The Dean of the School of Law,
Norman, Oklahoma.

CURRICULUM

The hour which constitutes the unit of credit as used in this catalogue except with reference to physical training is understood to mean one lecture hour a week, or its equivalent, for one semester.

It is desired that every student who enters the School of Law shall take full and not partial work, unless the circumstances be exceptional. A member of the first year class will not be permitted to take any regular course of the second and third year, and a member of the second year class will not be permitted to take third year courses unless for special cause shown and then only by permission of the dean.

Instruction is so arranged as to present fundamental subjects first, followed by specialized subjects later.

FIRST YEAR SUBJECTS

First Semester

Elementary Law: This course is designed to give the student an initial general survey of the entire body of the law in order that he may more intelligently comprehend the work in the other courses. Robinson's Elementary Law. Two hours a week. Professor Seavey.

Contracts: Mutual assent; offer and acceptance; consideration; contracts under seal; rights of beneficiaries; rights of assignees; joint and several contracts; conditional contracts; illegality; impossibility; duress; discharge. Williston's Cases on Contracts. Four hours a week. Professor Monnet.

Torts: Trespass to person and property; excuses for trespass; conversion; legal cause; negligence; duties of land owners; dangerous occupations; deceit; defamation; slander; libel; malice; malicious prosecution; inducing breach of duty; competition; strikes; boycotts; combinations. Ames and Smith's Cases on Torts. Two hours a week. Professor Seavey.

Property I: Distinction between real and personal property; personal property; transfer of rights; bailments; tenures; estates; seisin; statute of uses; natural rights; easements; covenants; rents; landlord

and tenant; emblements; fixtures. Gray's Cases on Property, Vols. I and II. Four hours a week. Professor Foster.

Special Lectures: Courses of lectures on a variety of subjects will be given by special lecturers for which one hour's credit may be allowed, together with practice court services.

Second Semester

Contracts: Continuation of course outlined in the first semester. Williston's Cases on Contracts. Two hours a week. Professor Monnet.

Common Law Procedure: Forms of action; motions and demurrers; defects in form and substance; defaults; dilatory pleas; confession and avoidance; cross demands; replications; further pleadings; amendments. A number of lectures in the course will also be given on equity pleading. Ames' Cases on Pleading and Whittier's Cases on Pleading. Two hours a week. Professor Cheadle.

Torts: Continuation of course outlined in the first semester. Two hours. Professor Seavey.

Criminal Law and Procedure: Criminal acts; attempts; consent; criminal intent; justification; parties; agency; accessories; jurisdiction; murder; manslaughter; larceny; burglary; other crimes; criminal procedure. Beale's Cases on Criminal Law, and the Oklahoma cases, penal statutes, and statutes of criminal procedure. Four hours a week. Professor Seavey.

Domestic Relations: Contract to marry; breach of promise; common law marriage; capacity; consent; husband and wife; wife's contracts; wife's property; wife's person; torts by each; divorce; grounds for granting and refusal; alimony; parent and child: maintenance; tort; legitimacy; infancy; contracts and torts; insanity; drunkeness; aliens. Woodruff's Cases on Domestic Relations. Two hours a week. Professor Kulp.

Special Lectures: Continued as indicated in the first semester.

SECOND YEAR SUBJECTS

First Semester

Agency: Nature of relation; appointment; liabilities of principal; torts; crimes; admissions; liabilities of agent; parties to writings; undisclosed principal; obligation between principal and agent; delegation of agency; termination; ratification. Wambaugh's Cases on Agency. Two hours a week. Professor Kulp.

Equity: Nature of jurisdiction; specific performance; affirmative contracts; negative; third persons; consequences of specific performance; partial performance; consideration; marketable title; statute of

frauds; mistake; hardship; mutuality; specific reparation; waste; disturbance of easements; nuisance; monopoly rights. Ames' Cases in Equity Jurisdiction. Two hours a week. Professor Monnet.

Evidence: Admissibility; relevancy; circumstantial; qualification; impeachment; admission; real evidence; documents; hearsay rule; exceptions; dying declarations; against interest; pedigree; subscribing witness; regular entries; reputation; records; order of evidence; opinion; privileged communications; burden of proof; judicial notice. Wigmore's Cases on Evidence. Four hours a week. Professor Cheadle.

Property 2. Including Wills: Acquisition of real property inter vivos; statute of limitations; prescription; releases; surrenders; boundaries; estates created; easements created; covenants of title; execution of deeds; acquisition after death; wills; making revocation and republication; lapsed legacies; administration; payment of debts; marshalling. Gray's Cases on Property, Vols. III and IV. Two hours a week. Professor Foster.

Mortgages: Legal mortgage; title theory; lien theory; equitable mortgages; absolute deed; conditional sale; reservation of title; after acquired property; subsequent advances; priority between mortgage liens; rights to possession; receipt of rents and profits: right to redeem; purchase of equity of redemption; clogging the equity of redemption; consolidation of mortgages. Wyman's Cases on Mortgages. Two hours a week. Professor Monnet.

Bailments and Carriers: The nature of public service; the classes of occupations embraced; the peculiar obligations; to serve all with reasonable facilities, at a reasonable price and without discrimination; the special obligations of bailees and carriers. Wyman's Public Service Corporations. Two hours a week. Professor Seavey.

Second Semester

Sales: Sales of goods when something remains to be done; when nothing remains; goods not specified; subsequent appropriation; reservation of jus disponendi; C.O.D.; fraud; retention of possession; delivery; factor's liens; stoppage in transitu; warranty; statute of frauds. Williston's Cases on Sales. Four hours a week. Professor Foster.

Code Pleading and Practice: One form; special preceedings; real party in interest; joinder of plaintiffs and defendants; petition; ultimate facts; union of causes of action; answer; new matter; equitable defenses; counterclaims; reply; demurrer. Hinton's Cases on Code Pleading and the Oklahoma statutes and decisions on civil procedure. Two hours a week. Professor Cheadle.

Equity: Continuation of course described in the first semester. Ames' Cases in Equity Jurisdiction. Two hours a week. Professor Monnet.

Agency: Continuation of course described in the first semester.

Wambaugh's Cases on Agency. Two hours a week. Professor Kulp.

Property 2. Including Wills: Continuation of course described in the first semester. Two hours a week. Professor Foster.

Suretyship: Kinds of suretyship; statute of frauds; surety's defenses; surety's right to subrogation; indemnity; contribution; exoneration; creditor's right to surety's securities. Ames' Cases on Suretyship. Two hours a week. Professor Monnet.

THIRD YEAR SUBJECTS

First Semester

Bills and Notes: Formal requisites; acceptance; indorsement; transfer; purchase for value without notice; overdue; extinguishment; obligations of parties; checks; diligence; presentment, dishonor, protest, notice; the negotiable instruments law. Ames' Cases on Bills and Notes. Four hours a week. Professor Kulp.

Constitutional Law: Nature of the constitution; relation of the states to the federal government; departments of government; taxation; commerce; police power; bankruptcy; currency; implied powers; powers of the executive; the judicial department; checks and balances; government of the territories; state comity; civil rights; political privileges; protection of contracts and property; due process of law; the status of recently annexed island territory. McClain's Cases on Constitutional Law. Two hours a week. Professor Foster.

Trusts: Nature and requisites; express, resulting, constructive, charitable; appointment of trustee; nature of cestui's interest; transfer by trustee or cestui; cestui's interest how affected by death, marriage, or bankruptcy of trustee or cestui; duties of trustee; removal; resignation; accounting. Ames' Cases on Trusts. Two hours a week. Professor Seavey.

Damages: Exemplary; liquidated; nominal; direct; consequential; avoidable; counsel fees; certainty; compensation; physical and mental suffering; aggravation and mitigation; value; interest; special rules in certain tort and contract actions. Beale's Cases on Damages. Two hours a week. Professor Kulp.

Practice Court: Drawing, criticising, and discussing pleadings; commencement of actions; issuance and service of process; motions; issues of law or demurrers; introduction of evidence; arguments of counsel; instructions to jury; verdict and judgment; motions for new trial; exceptions; appeal. Four hours a week. Professor Cheadle.

Second Semester

Corporations: Distinction between corporations and partnerships; disregarding the corporate fiction; formation of corporation, powers; what are corporate acts; de facto corporations; collateral at-

tack; ultra vires; promoters; directors; rights of minority shareholder; creditors; watered stock; transfer; ownership by corporation of shares of its own or other corporate stock; validity of voting trusts. Warren's Cases on Corporations. Four hours a week. Professor Kulp.

Conflict of Laws: Comity; territorial jurisdiction; domicile; taxation; jurisdiction in rem and in personam; marriage; legitimacy and adoption; movables and immovables; marital property; intestate and testamentary succession; place of contracting; interpretation, effect, and discharge of contracts; administration of estates; wardships; judgments, their nature, obligation, and effect. Beale's Cases on Conflict of Laws, Shorter Selection. Two hours a week. Professor Monnet.

Property 3: Illegal conditions and restraints; forfeiture and restraints on alienation; priority; fradulent conveyances; purchases for value; registration; effect of notice; conversion; election; joint ownership; conveyance by metes and bounds; curtesy and dower. Gray's Cases on Property, Vol. VI, and assigned topics. Two hours a week. Professor Foster.

Partnership: Nature of a partnership; formation of partnership; firm name and good will; mutual rights and duties; actions between partners at law and in equity; powers and liability of partners; dissolution; debts; distribution of assets. Ames' Cases on Partnership. Two hours a week. Professor Seavey.

Practice Court: Continuation of the course outlined in the first semester and trial of cases. Four hours a week. Professor Cheadle.

THE SCHOOL OF MEDICINE

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

WILLIAM JAMES JOLLY, M. D.
Acting Dean of the School of Medicine, Professor of Surgery.

EDWIN DEBARR, M. S., Ph. D.
Professor of Chemistry.

GUY YANDELL WILLIAMS, M. A., Ph. D.
Associate Professor of Chemistry.

HENRY HIGGINS LANE, M. A.
Professor of Zoology.

WALTER LEANDER CAPSHAW, M. D.
Professor of Anatomy.

LOUIS ALVIN TURLEY, A. M.
Professor of Histology and Pathology

JOHN CHESTER DARLING, M. S., M. D.
Physical Director.

ARCHA KELLY WEST, M. D.
Professor of Medicine.

ROBERT MAYBURN HOWARD, M. D.
Associate Professor of Surgery.

EDMUND SHEPPARD FERGUSON, M. D.
Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff.

JOHN WILLIAM RILEY, M. D.
Associate Professor of Surgery.

HORACE REED, M. D.
Associate Professor of Surgery.

JOHN ARCHER HATCHETT, M. D.
Professor of Obstetrics and Gynecology.

ABRAHAM LINCOLN BLESH, M. D.
Associate Professor of Surgery.

LAUFEN HAYNES BUXTON, M. D., LL. D.
Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff.

GAYFREE ELLISON, B. S., M. D.
Professor of Bacteriology.

EDWARD FRANCIS DAVIS, M. D.
Associate Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff.

CURTIS RICHARD DAY, PH. G., M. D.
Associate Professor of Genito-Urinary, Venereal, and Skin Diseases.

JOHN SMITH HARTFORD, M. D.
Associate Professor of Gynecology, Chief of Dispensary Staff, and Attending Gynecologist.

GEORGE ALTHOUSE LAMOTTE, B. L., M. D.
Associate Professor of Medicine.

LEWIS JEFFERSON MOORMAN, B. S., M. D.
Associate Professor of Medicine.

LEONARD BLAINE NICE, Ph. D.
Professor of Physiology.

LEA ARMISTEAD RIELY, A. M., M. D.
Associate Professor of Medicine.

HARRY COULTER TODD, M. A., M. D.
Associate Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physican, Dispensary Staff.

ANTONIO DEBORD YOUNG, M. D.
Associate Professor of Nervous and Mental Diseases.

Assistant Professors

WILLIAM RICHARD BEVAN, M. D.
Assistant Professor of Obstetrics.

SAMUEL ROBERT CUNNINGHAM, M. D.
Assistant Professor of Gynecology, Attending Gynecologist, Dispensary Staff.

RICHARD LELAND FOSTER, A. M., M. D.
Assistant Professor of Medicine.

CHARLES EARNEST HAMNER, M. D.
Assistant Professor of Bacteriology.

ROBERT LORD HULL, A. B., M. D.
Assistant Professor of Orthopedic Surgery.

JOHN FREDERICK KUHN, Ph. G., M. D.
Assistant Professor of Surgery.

EVERETT SAMUEL LAIN, M. D.
Assistant Professor of Electro-Therapy and Radiography.

ROBERT ELMORE LOONEY, M. D.
Assistant Professor of Obstetrics.

JOSEPH THOMAS MARTIN, A. M., M. D.
Assistant Professor of Children's Diseases, Attending Pediatrist, Dispensary Staff.

JOSEPH FIFE MESSENBAUGH, M. D.
Assistant Professor of Children's Diseases.

EDGAR ELMER RICE, A. B., M. D. (Shawnee.)
Assistant Professor of Gynecology.

MILLINGTON SMITH, M. D.
Assistant Professor of Clinical Surgery.

RALPH VERNON SMITH, M. D. (Guthrie.)
Assistant Professor of Surgery.

FRANK BRUNER SORGATZ, M. D.
Assistant Professor of Medicine, Attending Physician, Dispensary Staff.

WILLIAM MERRITT TAYLOR, B. S., M. D.
Assistant Professor of Children's Diseases.

CURT OTTO VON WEDEL, JR., M. D.
Assistant Professor of Surgery, Attending Surgeon, Dispensary Staff.

LEIGH FESTUS WATSON, Ph. G., M. D.
Assistant Professor of Surgery.

ARTHUR WEAVER WHITE, M. A., M. D.
Assistant Professor of Medicine.

ARTHUR ANDERSON WILL, M. D.
Assistant Professor of Rectal Surgery.

Instructors

John Mosby Alford, M. D.
Anaesthetist, University Hospital, with rank of Instructor.

Annette Bourbon Cowles, R. N.
Superintendent of the Hospital, with rank of Instructor.

Floyd Jackson Bolend, Ph. C., M. D.
Attending Pediatrist, Dispensary Staff, with rank of Instructor.

Rex George Bolend, B. S., M. D.
Attending Physician, Dispensary Staff, with rank of Instructor.

Thomas Craig Burns, M. D.
Instructor in Nervous Diseases, Attending Physician, Dispensary Staff.

Charles Duncan Ferguson, M. D.
Attending Physician, Department of Eye, Ear, Nose, and Throat Diseases, Dispensary Staff, with rank of Instructor.

William Alonzo Fowler, L. I., M. D.
Attending Physician, Department of Obstetrics, Dispensary Staff, and Director of the Out-Patient Department, with rank of Instructor.

Andrew Merriman Young, M. D.
Attending Physician, Dispensary Staff, with rank of Instructor.

Martha Eggleston Zimmerman, R. N.
Assistant Superintendent of the Hospital, with rank of Instructor.

Earle Sellers Porter, M. A.
Instructor in Chemistry.

Cyril Ebert Clymer, M. D.
Attending Surgeon, Dispensary Staff, with rank of Instructor.

Casriel J. Fishman, Ph. C., B. S., M. D.
Instructor in Clinical Microscopy.

THE SCHOOL OF MEDICINE

The first and second years of the School of Medicine were established at Norman in 1900. The third and fourth years were established at Oklahoma City in 1910, upon the disbanding of the Epworth College of Medicine, which had been conducted in Oklahoma City since 1904, and upon the tender of the services of members of its faculty to the state in order to effect this consolidation.

In the spring of 1911 the new State Board of Education, created by the Legislature in session that year, became the governing body of the university instead of the former Board of Regents. The state board at once ordered a reorganization of the medical school in order to bring it fully abreast of the modern requirements in medical education. Excellent school accommodations were provided and the necessary hospital control acquired, so that the School of Medicine, now well equipped with every essential for good teaching and manned by a carefully selected corps of experienced teachers, offers to-day a thoroughly modern course of instruction which conforms to the highest approved standards.

The school is a member of the Association of American Medical Colleges and maintains strictly all of the rules and requirements of that organization.

REQUIREMENTS FOR ADMISSION

The minimum* requirement for admission to the School of Medicine is graduation from an accredited high school offering 15 units, as shown in the following table.

English	3 units.
Algebra	1 unit.
Plane Geometry	1 unit.
History	1 unit.
Latin	2 units.
Physics	1 unit.
Electives	6 units.
Total	15 units.

*For complete description of subjects accepted for admission see General Catalogue under Admission. No student is admitted with less than fifteen admission units.

†Beginning January 1, 1914, the minimum requirements for admission will include the 15 units named above and one year of college work in physics, chemistry and biology and a reading knowledge of at least one modern language besides English, preferably German or French.

In order to fulfill these requirements the student should take the following courses:

First Semester		Second Semester	
Chemistry 1	4 hours	Chemistry 2	4 hours
Botany 1	4 hours	Zoology 2	4 hours
Physics 1	4 hours	Physics 2	4 hours
*Modern Language	4 hours	Modern Language	4 hours
Physical Training 1	1 hour	Physical Training 2	1 hour

*Students offering two units of modern language for admission may substitute English 1 and 2 for modern language.

Examinations and Certificates

Students who are not graduates of an approved secondary school or college are admitted on examination. Certificates from other members of the Association of American Medical Colleges are accepted for admission.

Advanced Standing

Four years of residence in a medical school are required by schools in the Association of American Medical Colleges of all candidates for the degree of Doctor of Medicine. Time credit will be given for work done in another medical school, whose sessions are not less than 32 weeks a year, but subject credit will be allowed only for work done in medical schools which maintain standards of entrance and work equal to those of colleges in the association. Subject credit, however may be given upon examination for work done in other colleges.

BACHELOR OF SCIENCE COURSE IN MEDICINE

Medical students are advised to secure two years of college training before entering the School of Medicine. Students who have completed at least 60 academic hours in the College of Arts and Sciences may enter the School of Medicine and after completing the first two years' work, be recommended for the degree of Bachelor of Science (in Medicine) in the College of Arts and Sciences. Subjects given in the School of Medicine will not be counted in making up the 60 hours required in the College of Arts and Sciences.

In addition to satsifying the entrance requirements of the College of Arts and Sciences, the student must complete the prescribed work,

the group electives**, and the subjects prescribed for admission to the School of Medicine.

The following outline of courses will comply with these requirements:

First Year

First Semester		Second Semester	
English 1	4	English 2	4
Chemistry 1	4	Chemistry 2	4
Modern Language	4	Modern Language	4
Botany 1	4	Zoology 2	4
Physical Training	1	Physical Training	1
	17		17

Second Year

Physics 1	4	Physics 2	4
History 1	4	Physiology 1	4
*Mathematics or Ancient Language	4	Mathematics or Ancient Language	4
General Psychology	4	Experimental Psychology	4
Physical Training	1	Physical Training	1
	17		17

*Students offering four units of Latin or three and one-half units of Mathematics for admission may substitute modern language or other subjects.

**Under special conditions the student may be excused from completing the group electives by the Dean of the College of Arts and Sciences.

STANDARD FOUR YEARS' COURSE IN MEDICINE

The School of Medicine offers the standard four years' curriculum leading to the degree of Doctor of Medicine. The work of the first and the second years is done in the laboratories at Norman. The libraries, museums, and other facilities of the University of Oklahoma are used in the medical instruction. The work of the third and the fourth years is done at Oklahoma City.

REQUIREMENTS FOR GRADUATION

A candidate for the degree of Doctor of Medicine (M. D.) must be twenty-one years of age, and of good moral character. He must have studied medicine for four years and must have received credit for at least four annual courses of medical instruction in four different calendar years at approved medical schools, of which the last an-

nual course must have been studied in this school. At least ten months must have intervened between the beginning of one year's work and that of the next. He must have complied with all the rules and regulations of this school and must have paid all fees. He must have attended at least 80 per cent of the exercises in each annual course, and he must have been four years in residence in an approved medical school.

MEDICAL FACILITIES AT NORMAN

The medical facilities at Norman include the laboratories of chemistry and pharmacy with rooms for work in general, organic, and physiological chemistry, qualitative and quantitative analysis, pharmacy, and pharmacognosy. Medical laboratories with rooms for normal and pathological histology, bacteriology, materia medica, and physiology are also available in Science Hall. Embryology is given in the department of zoology. The anatomical building contains a large dissecting room and a laboratory for osteology, a preparation room, and a recitation room in which are the osteological collection, many of the anatomical charts and models, and the departmental library. The departmental library, intended for daily reference, is accessible at all times.

Oklahoma Hospital for Insane

The Oklahoma Hospital for the Insane is located at Norman, about two miles from the School of Medicine. There are seven hundred beds, and the daily census has shown a full quota of patients. The faculty and students have the privilege of studying there all forms of mental diseases and many rare conditions.

CLINICAL FACILITIES AT OKLAHOMA CITY

Oklahoma City, with a population of over 75,000, offers excellent opportunities for clinical instruction. The city is well supplied with hospitals. A great deal of emergency work occurs besides the usual diseases incident to a city of this size. Clinical instruction is given wholly in small sections so that every student has opportunity for personal observation of cases shown.

School Building

The school building, formerly a private residence, is located at 317 East Fourth Street, and adjoins the State University Hospital. It is an imposing brick building of Colonial style, standing on high ground. In it are suitable lecture rooms, the clinical laboratory, and the library. The library is open for the use of students throughout the day, and they are privileged to take out books for home reading according to the usual library rules.

State University Hospital

The State University Hospital, with a capacity of sixty beds, was opened January 17, 1912. It is located in a central and easily accessible portion of the city, on the east side, in a quiet neighborhood, in an elevated section. It is arranged with separate wards for white and colored, male and female patients, and with private rooms. There are twenty-six ward beds and thirty-four private room beds. All of the ward beds are used for clinical purposes, and a majority of the private patients are entirely willing to be demonstrated before the class and are so used. The hospital has three modern, sanitary operating rooms, with the necessary sterilizing and wash-rooms, all equipped with the most up-to-date apparatus. Private entrance for students has been arranged so that they have ready access at all times to the wards and operating rooms without the necessity of passing through that portion of the building devoted to the private rooms. Students in rotation serve as history clerks and keep the records for all patients in the institution.

Free Dispensary

In the basement of the hospital is located the free dispensary, arranged with separate waiting rooms for white and colored patients, and having separate clinic rooms for the departments of eye, ear, nose, and throat; children's diseases; medical and nervous diseases; genito-urinary and skin diseases; and surgery. This dispensary is opened daily, except Sundays, from one to three o'clock, and the students here do the work under the direction of the dispensary staff, rotating in sections through the whole dispensary service. Each student here has twenty hours of actual work in each department, except medicine and surgery, in which he has forty hours each. Many clinics are held daily in the hospital, the arrangement being shown in the published schedule.

Out-Patient Obstetrical Clinics

An out patient obstetrical clinic has been organized which offers professional services in confinement cases at home. A dispensary station has been opened in the south side of town, in charge of a competent matron, where calls will be received and registered. Each case is attended by one of the attendant obstetricians and two students of the senior class.

St. Anthony's Hospital

St. Anthony's Hospital, located in the residence section, on the west side of the city, is owned by the Sisters of St. Francis. It is the largest of its kind in the state, having 130 bed capacity. The hospital

is well arranged for student instruction, with three operating rooms and several demonstration rooms properly furnished, and large and convenient wards for both sexes.

The staff is composed exclusively of the members of the faculty of this school, and teaching privileges have been graciously accorded by the Sisters, and clinics are regularly held in this institution.

ENROLLMENT

The medical students who enroll at Norman for the first and second years will find a statement of the plan of enrollment in the general catalogue under "Admission."

Registration at Oklahoma City

Students of the third or the fourth year must consult with the dean and submit their credentials to him at Oklahoma City.

Expenses at Oklahoma City

As the work of the curriculum in The School of Medicine demands all the time and energy of the student, he should not attempt to earn any part of his expenses while attending this school.

Books should be bought only on the advice of the instructor, and only the latest editions, as the advance in the sciences is so rapid that an old medical book soon becomes practically useless.

FEES AND DEPOSITS

Tuition is free in all departments of the university. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

In laboratory courses students must pay the actual cost of material used in accordance with the statement under the heading "Fees and Deposits," under General Information in the general catalogue. In the third and in the fourth year the laboratory fee is $10.00 each year.

SYNOPSIS OF COURSES

First Year

First Semester

		Lect. Hrs.	Lab. Hrs.	Cr. Hrs.
Chemistry 1	General Chemistry	32	96	4
Anatomy 1	Osteology		96	2
Anatomy 2	Dissection Upper Half	32	160	5
Bacteriology 1	General Bacteriology	32	96	5
Materia Medica 6		32		2
Physical Training				1

Second Semester

Anatomy 3	Dissection of Lower Half	32	160	5
Histology 1	Normal Histology	32	96	4
Physiology 2	Human Physiology	64		5
Physiology 3	Experimental Physiology		64	2
Pharmacy 7	Pharmaceutical Methods		64	2
Pysical Training				1

Second Year

First Semester

Chemistry 121	Oganic Chemistry	80		5
Anatomy 4	Cross Section, Relational Anatomy	32	160	5
Physiology 4	Human Physiology	64		4
Physiology 5	Experimental Physiology		80	2
Pharmacology 1	Pharamacology and Toxicology		128	3

Second Semester

Chemistry 124	Physiological Chemistry	32	96	4
Embryology 1	Medical Embryology	32	96	4
Hygiene 1	Principles of Hygiene and Sanitation	48		3
Pathology 1	General Pathology	48	160	5
Physical Diagnosis 1		16	16	2

Third Year

First Semester

Medicine 1	General Medicine	64	32	4
Medicine 5	Physical Diagnosis	16	32	2
Medicine 7	General Pediatrics	48		3
Medicine 9	Children's Diseases	16		1

		Lect. Hrs.	Lab. Hrs.	Cr. Hrs.
Medicine 15	Clinical Microscopy		80	2
Medicine 19	Therapeutics	32		2
Medicine 28	Clinical Pathology		32	1
Surgery 1	Principles of Surgery	48		3
Surgery 3	Fractures and Dislocations	32		2
Surgery 11	Operative Surgery	16		1
Obstetrics 1		32		2
Obstetrics 3		16		1
Gynecology 1		48		3
Gynecology 3	Clinical Gynecology		32	1
Skin and Venereal Diseases 1		12		2
Skin and Venereal Diseases 2			16	1-2
Pathology			32	1
	SECOND SEMESTER			
Medicine 2	General Medicine	64		4
Medicine 6	Physical Diagnosis	16	32	2
Medicine 8	General Pediatrics	48		3
Medicine 10	Children's Diseases	16		1
Medicine 16	Clinical Microscopy		80	2
Medicine 20	Therapeutics	32		2
Medicine 22	Medical Jurisprudence	16		1
Medicine 29	Clinical Pathology		32	1
Surgery 2	Principles of Surgery	32		2
Surgery 4	Tumors	16		1
Surgery 12	Operative Surgery	16		1
Surgery 16	Minor Surgery	8	8	1-2
Obstetrics 2		16		1
Obstetrics 4		32	32	1
Obstetrics 5	Obstetrical Demonstrations		32	2
Gynecology 4	Clinical Gynecology		32	1
Genito-Urinary Diseases 2		32		2
Genito-Urinary Diseases 4			16	1-2
Pathology			32	1
	Fourth Year			
	FIRST SEMESTER			
Medicine 3	Clinical Medicine		116	4
Medicine 11	Clinical Pediatrics		26	1-2
Medicine 13	Nervous & Mental Diseases	48		3
Medicine 17	Clinical Microscopy		80	2
Medicine 23	Prescription			1-2

		Lect. Hrs.	Lab. Hrs.	Cr. Hrs.
Medicine 21	Medical Ethics & Economics			
Medicine 26	Electro-Therapeutics	16		1-2
Surgery 5	Surgical Diagnosis	16		1
Surgery 7	Regional Surgery	16		1
Surgery 9	Clinical Surgery		180	5
Surgery 13	Orthopedic Surgery	16	16	1 1-2
Surgery 15	Rectal Surgery	8	8	1-2
Gynecology 5	Clinical Gnyecology		16	1-2
Eye Diseases 1		16		1
Eye Diseases 3	Clinic		16	1-2
Ear, Nose, and Throat Diseases 1		16		1
Ear, Nose, and Throat Diseases 3	Clinic		16	1-2
	SECOND SEMESTER			
Medicine 4	Clinical Medicine		116	4
Medicine 12	Clinical Pediatrics		26	1-2
Medicine 14	Nervous & Mental Diseases	48		2
Medicine 18	Clinical Microscopy		80	2
Medicine 20	Therapeutics	32		2
Medicine 24	Prescription Writing	16		1-2
Medicine 27	Radiography	16		1-2
Surgery 6	Surgical Diagnosis	16		1
Surgery 8	Regional Surgery	32		2
Surgery 10	Clinical Surgery		180	5
Surgery 14	Orthopedic Surgery	16	16	1 1-2
Gynecology 6	Clinical Gynecology		16	1-2
Eye Diseases 2		16		1
Eye Diseases 4	Clinic		16	1-2
Ear, Nose, and Throat Diseases 2		16		1
Ear, Nose, and Throat Diseases 4	Clinic		16	1-2

THE SCHOOL OF MEDICINE

SCHEDULE—FIRST YEAR—FIRST SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	F	Chemistry 1	Chemistry 1	Chemistry 1	Chemistry 1	
9 00	Chemistry 1	F	Chemistry 1	Chemistry 1	Chemistry 1	
10 00	Bacteriology 1	Bacteriology 1	Chapel	Bacteriology 1	Bacteriology 1	
11 00	Bacteriology 1	Bacteriology 1	Bacteriology 1	F	Bacteriology 1	
1 30	Dissection	Materia Medica	Materia Medica	Dissection	Materia Medica	
2 30	Dissection	Dissection	Osteology	Dissection	Osteology	
3 30	Dissection	Dissection	Osteology	Dissection	Osteology	
4 30	Dissection	Dissection	Osteology	Dissection	Osteology	

SCHEDULE—FIRST YEAR—SECOND SEMESTER

Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	F	Physiology	Physiology	Physiology	Physiology	Pharmacy Methods
9 00		F				Pharmacy Methods
10 00	Histology	Histology	Chapel	Histology	Histology	Pharmacy Methods
11 00	Histology	Histology	Histology	F	Histology	Pharmacy Methods
1 30	Dissection	Dissection	Physiology Lab.	Dissection	Physiology Lab.	
2 30	Dissection	Dissection	Physiology Lab.	Dissection	Physiology Lab.	
3 30	Dissection	Dissection		Dissection		
4 30	Dissection	Dissection		Dissection		

SCHEDULE—SECOND YEAR—FIRST SEMESTER

Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	F	Physiology	Physiology	Physiology	Physiology	
9 00	Organic Chemistry	F	Organic Chemistry	Organic Chemistry	Organic Chemistry	
10 00	Pharmacology	Pharmacology	Chapel	Pharmacology	Pharmacology	
11 00	Pharmacology	Pharmacology		Pharmacology	Pharmacology	
1 30	Cross Section Anatomy	Cross Section Anatomy	Physiology Laboratory	Cross Section Anatomy	Physiology Laboratory	
2 30	"	"	"	"	"	
3 30	"	"	"	"	"	
4 30	"	"	"	"	"	

SCHEDULE—SECOND YEAR—SECOND SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	F	Physiological Chem	Physiological Chem	Physiological Chem	Physiological Chem	Physiological Chem
9 00	Physiological Chem	Physical Diagnosis	Physiological Chem	Physiological Chem	Physiological Chem	Physiological Chem
10 00	Embryology	Embryology	Chapel	Embryology	Embryology	Physiological Chem
11 00	Embryology	Embryology	Embryology	Physical Diagnosis	Embryology	Physiological Chem
1 30	Hygiene	Hygiene	Pathology	Hygiene	F	
2 30	Pathology	Pathology	Pathology	Pathology		
3 30	Pathology	Pathology	Pathology	Pathology		
4 30	Pathology	Pathology	Pathology	Pathology		

SCHEDULE—THIRD YEAR—FIRST SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00		Clinical Pathology				Operative Sugery
9 00		Clinical Pathology		Clinic Physical Diagnosis	Clinic Physical Diagnosis	Physical Diagnosis
10 00	Gynecology Clinic	Obstetrics	Gynecology Clinic	Obstetrics	Quiz Medicine	Obstetrics
11 00	Children's Dis.	Therapeutics	Children's Dis.	Therapeutics	Children's Dls.	
1 00	Clinical Laboratory	Clinical Laboratory	Clinical Laboratory	Clinical Laboratory	Clinical Laboratory	
2 00	Quiz Surgery	Skin and Venereal	Quiz Gynecology	Skin and Venereal	Clinic Skin and Ven	
3 00	Medicine	Surgery	Medicine	Surgery	Medicine	
4 00	Gynecology	Quiz Children's Dis.	Principles of Sur'y	Gynecology	Principles of Sur'y	

SCHEDULE—THIRD YEAR—SECOND SEMESTER

Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00		Clinical Pathology				Operative Surgery
9 00	Obstetrical Demonstration	Clinical Pathology	Obstetrical Demonstration	Clinic Physical Diagnosis	Clinic Physical Diagnosis	Clinic Physical Diagnosis
10 00	Gynecology Clinic	Obstetrics	Gynecology Clinic	Obstetrics	Quiz Medicine	Obstetrics
11 00	Children's Diseases	Therapeutics	Children's Diseases	Therapeutics	Children's Diseases	
1 00	Clinical Laboratory	Clinical Laboratory	Clinical Laboratory	Clinical Laboratory	Clinical Laboratory	
2 00	Quiz Surgery	Clinic G.U.Diseases	Minor Surgery	G. U. Diseases	Clinic G. U. Dis	
3 00	Medicine	Surgery	Medicine	Surgery	Medicine	
4 00		Quiz Children's Dis	Surgery	Jurisprudence	Surgery	

SCHEDULE—FOURTH YEAR—FIRST SEMESTER

Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00 9 00	Surgical Clinic A	Surgical Clinic C	Surgical Clinic A	Surgical Clinic B	Clinical Surgery	Surgical Clinic B
10 00	Medical Clinic	Medical Clinic	Medical Clinic	Medical Clinic	Gynecology Clinic	Regional Surgery
11 00	Cl. Eye Diseases	Orthopedic Surgery	Clinic Ear, Nose and Throat	Cl. Children's Dis.	Orthopedic Clinic	Electro-Therapy
1 00	Dispensary	Dispensary	Dispensary	Dispensary	Dispensary	
2 00	Clinical Laboratory	Clinical Laboratory	Clinical Laboratory	Clinical Laboratory	Clinical Laboratory	
3 00	PrescriptionWriting	Quiz Nervous Dis.	Clinical Medicine	Medical Ethics	Medical Clinic	
4 00	Rectal Surgery	Eye Diseases	Nervous Diseases	Ear, Nose, and Throat	Nervous Diseases	

SCHEDULE—FOURTH YEAR—SECOND SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00 9 00	Surgical Clinic A	Surgical Clinic C	Surgical Clinic A	Surgical Clinic B	Clinical Surgery	Surgical Clinic B
10 00	Medical Clinic	Medical Clinic	Medical Clinic	Medical Clinic	Gynecology Clinic	Regional Surgery
11 00	Clinic Eye Diseases	Orthopedic Surgery	Clinic Ear, Nose, and Throat	Clinic Children's Diseases	Orthopedic Clinic	Electro-Therapy
1 00	Dispensary	Dispensary	Dispensary	Dispensary	Dispensary	
2 00	Clinical Laboratory	Clinical Laboratory	Clinical Laboratory	Clinical Laboratory	Clinical Laboratory	
3 00	Prac. Therapeutics	Quiz Nervous Dis.	Medical Clinic	Regional Surgery	Medical Clinic	
4 00		Eye Diseases	Nervous Diseases	Ear, Nose, and Throat	Nervous Diseases	

DESCRIPTION OF COURSES

Courses marked a are first semester courses. Courses marked b are second semester courses.

ANATOMY

Professor Capshaw

Anatomy Ia. Osteology: A complete study of the human skeleton. Each student is furnished a set of bones for individual study and drawings. Text, Cunningham. Lectures, recitations, and laboratory. Fee, $2.00. Six periods. 2 hours.

Anatomy 2a. Dissection of the Upper Half of the Human Body: A body will be furnished to each two students. Text, Cunningham. Quizzes and laboratory work. Fee, $15.00. Twelve periods. 5 hours.

Anatomy 3b. Dissection of Lower Half of the Body: A continuation of Anatomy 2. Fee, $10.00. Twelve periods. 5 hours.

Anatomy 4b. Cross Section, and Relational Anatomy In cluding the Brain: Serial sections of the human body will be studied and drawings of each section made. A thorough study of the gross anatomy of the brain with drawings made of sections cut in different planes. Text, Cunningham. Lectures, recitations, and laboratory. Fee, $2.00. Twelve periods. 5 hours.

BACTERIOLOGY

Professor Ellison

Bacteriology Ia. General Bacteriology: This course includes a detailed study of the more important forms of pathogenic and non-pathogenic organisms with methods of their isolation from body fluids, water foods, etc., and their relation to human life. Lectures, laboratory, assigned readings, and reports. Muir and Ritchie, and Heinneman. Required of medical students. Lectures and laboratory. Deposit required. 5 hours.

CHEMISTRY

Professor DeBarr, ----------

Chemistry I. General Chemistry: Laboratory and lectures with recitations. Students are required to use the chemicals and

chemical apparatus of the laboratory in this course. Deposit required. 4 hours.

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisite, Chemistry 4. Perkin and Kipping's Organic Chemistry. Deposit required. Professor DeBarr. 5 hours.

Chemistry 124b. Physiological Chemistry: Physiological analysis. Lectures and laboratory. Deposit required. Professor DeBarr. 4 hours.

HISTOLOGY

Professor Turley

Histology 1b. Normal Histology: A study of the microscopic anatomy of animal tissues and organs; the principles of cytology and splanchnology with special emphasis on the human tissues and organs; and histologic technique. Lectures and laboratory. Eight periods. 4 hours.

HYGIENE

Professor Ellison

Hygiene 1b. Principles of Hygiene and Sanitation: A course of lectures and demonstrations with assigned readings, taking up the subjects of ventilation, heating, food, digestion, disinfection, contagious diseases, water supplies, sewage, and sanitation, with methods of control and suppression of epidemics. 2 hours.

MATERIA MEDICA

Assistant Professor Browne

Materia Medica 6a. A study of the official drugs and other approved remedies, with reference to origin, preparation, dosage and physiological action. The symptoms and treatment of poisoning, the writing of prescriptions, the dispensing and administration of remedies are considered. Medical Latin is included. Lectures and assigned readings. 2 hours.

PATHOLOGY

Professor Turley

Pathology 1b. General Pathology: A study of the abnormal functioning of the various organs of the body, the conditions producing diseases, the efforts of the body to overcome diseases and regenerate diseased tissues, disturbances in development, circulatory disturbances, retrogressive processes, progressive processes, inflammation, and secondary diseases. This course is the basis of advanced special, clinical, and diagnostic pathology. Lectures, recitations, and demonstra-

tions showing gross and micoscopic lesions in the human tissues. Required of all medical students; elective for others with prerequisite, Histology 1. Deposit required. Ziegler, and Mallory and Wright. 4 hours.

PHARMACOLOGY

Assistant Professor Browne

Pharmacology Ia. Pharmacology and Toxicology: Laboratory studies of the physiologic action of human remedies as verified by experiments. Deposit required. 3 hours.

PHARMACY

Assistant Professor Browne

Pharmacy 7b. Pharmaceutical Methods: A course in elementary pharmacy for medical students. The student makes preparations of each pharmaceutical type contained in the United States Pharmacopoeia, as pills, powders, waters, decoctions, solutions, tinctures, emulsions, and liniments. Practice in prescription dispensing, and the making of stupes, poultices, plasters, and medicated baths. Recitations and laboratory work. Deposit required. 2 hours.

PHYSICAL DIAGNOSIS

Associate Professor Darling

Physical Diagnosis Ib. Diagnosis of the normal body preparatory to the larger course given in the third year. Lectures on the theory of physical diagnosis. The class will be practiced in small sections in actual examinations of normal bodies. 2 hours.

PHYSICAL TRAINING

Director Darling

Physical Training Ia. Marching, calisthenics, Indian clubs, and dumb-bells. Required of freshmen. Dr. Darling. 1 hour.

Physical Training 2b. A continuation of Course 1 with the addition of elementary work on heavy apparatus. Required of freshmen. Dr. Darling. 1 hour.

PHYSIOLOGY

Professor Nice

Physiology Ib. General Physiology: A practical course in human physiology, dealing with the structure and function of the different organs and tissues of the human body. Special emphasis is laid upon the application of the science to healthy living. This course is designed for those desiring a thorough practical knowledge of physiology. Lectures and laboratory. Text, Brubaker. Fee, $2.00. 4 hours.

Physiology 2b. Human Physiology: An advanced study of

protoplasm, lymph, blood, circulation, respiration, muscles, nerves, and the central nervous system. Prerequisite, Physiology 1 or its equivalent. Lectures, demonstrations, and assigned readings. Texts, Kirke or Howell. Required of medical students. 4 hours.

Physiology 3b. Experimental Physiology: Laboratory studies illustrating Physiology 2. Deposit required. 2 hours.

Physiology 4a. Human Physiology: An advanced study of nutrition, digestion, secretion, excretion, metabolism, dietetics, biochemistry, brain, special senses, and growth. Prerequisite, Physiology 1 or equivalent. Required of medical students. Text, Kirke or Howell. Lectures, demonstrations. and assigned readings. 4 hours.

Physiology 5a. Experimental Physiology: Laboratory studies illustrating Physiology 4. Deposit required. 2 hours.

EMBRYOLOGY

Professor Lane

Embryology Ib. Medical Embryology: A study of oogenesis, spermatogenesis, maturation, fertilization, cleavage, formation of the germ-layers, and organogeny. Laboratory work upon the essentials of organogeny in the chick, pig, and man. For medical students only. Lectures, recitations, and laboratory. Fee, $3.00. 3 hours.

MEDICINE

Professor West, Associate Professors LaMotte, Moorman, Riely, Young; Assistant Professors Foster, Sorgatz, White, Taylor, Messenbaugh, Martin; Dr. Fishman, Dr. Burns

Medicine Ia. General Medicine: The course is prefaced by the history of the development of medical science. Special attention will be given to the new discoveries in medicine during the past twenty-five years, and the application of these discoveries to the prevention and cure of diseases. The whole subject of medicine is divided into three classes: infectious diseases, diseases of special organs, diseases due to faulty metabolism. Three lectures a week and one quiz. Dr. West, Dr. Sorgatz. 4 hours.

Medicine 2b. General Medicine: A continuation of Medicine 1. Three lectures a week and one quiz. Dr. West, Dr. Sorgatz. 4 hours.

Medicine 3a. Clinical Medicine; This course consists chiefly of bedside clinics. After eliciting the history and making the physical examination, the tentative diagnosis is made and discussed, special emphasis being placed on the essential characteristics of the disease in question. This is followed by a differential diagnosis and discus-

sion of the varieties and special symptoms with reference to prognosis. Careful consideration is also given to the proper treatment of each case demonstrated.

A weekly clinical lecture by the case teaching method is given. Case histories are given out and written reports on diagnosis, prognosis and treatment, with full discussion, are required of each student. These are then discussed in class. Clinics are held twice a week at the bedside. Students in small groups are required to take a full history, make a careful physical examination and all necessary laboratory tests for diagnosis. This work is done before the class meets to study the case. The students' mistakes are then publicly noted and corrected and the entire class is given an opportunity to verify the principal findings in the examinations. Opportunity is given to watch the effects of treatment adopted in each case. Each student is required also to spend twenty hours in the medical division of the dispensary, where his work in this important aid for diagnosis is reviewed by the members of the staff. Six hours a week and twenty hours of dispensary work. Dr. LaMotte, Dr. Riely, Dr. White. 4 hours.

Medicine 4b. Clinical Medicine: A continuation of Medicine 3. Six hours a week and twenty hours of dispensary work. Dr. LaMotte, Dr. Riely, Dr. White. 4 hours.

Medicine 5a. Physical Diagnosis: By actual practice on the normal subject, each student is required to become familiar with the fundamental methods employed in physical examination, and by these methods to determine the position, relation and topography of the various organs of the body. Particular attention is given to the development of proper technic and of proper appreciation of the importance of a thorough, systematic examination in each case. In addition to the demonstration of instructive cases before the class, each student is required to make examinations, the teacher seeing that all signs and symptoms are noted. One lecture a week and two periods of clinical work. Dr. Moorman. 2 hours.

Medicine 6b. Physical Diagnosis: Continuation of Medicine 5. One lecture a week and two periods of clinical work. Dr. Moorman. 2 hours.

Medicine 7a. General Pediatrics: This is a didactic course consisting of lectures, recitations and quizzes. The course embraces diseases of the new born, infant feeding, diseases of the gastro-intestinal and respiratory tracts, dietetics, diseases of nutrition, diseases of the nervous system, and therapeutics for infants and children. Three hours a week. Dr. Taylor, Dr. Martin. 3 hours.

Medicine 8b. General Pediatrics: Continuation of Medicine

7. Three hours a week. Dr. Taylor, Dr. Martin. 3 hours.

Medicine 9a. Acute Infectious Diseases of Children: Symptoms and methods of treating. One hour a week. Dr. Messenbaugh. 1 hour.

Medicine 10b. Acute Infectious Diseases of Children: A continuation of Medicine 9. One hour a week. Dr. Messenbaugh. 1 hour.

Medicine 11a. Clinical Pediatrics: The children's clinic is held one hour a week. Each student is required to spend ten hours in the division of children's diseases in the dispensary where he has practical charge of the cases under the direction of an instructor. One hour a week and ten hours of dispensary work. Dr. Taylor. 1-2 hour.

Medicine 12b. Clinical Pediatrics: A continuation of Medicine 11. One hour a week and ten hours of dispensary work. Dr. Taylor. 1-2 hour.

Medicine 13a. Nervous and Mental Diseases: This course is designed to meet the requirements of the general practitioner. It includes both lectures and clinics. It begins with a general review of the anatomy and physiology of the nervous system. Then follows the general pathology of nervous diseases, and the neuroses. The latter part of the course is devoted to the study of derangements of the mind. Three hours a week. Dr. Young, Dr. Burns. 3 hours.

Medicine 14b. Nervous and Mental Diseases: A continuation of Medicine 13. Three hours a week. Dr. Young, Dr. Burns. 3 hours.

Medicine 15a. Clinical Microscopy; The principles of pathology are reviewed, especially with a view to practical application to laboratory diagnosis. Blood, urine, feces, gastric contents, sputum, etc., are examined. Methods of collecting materials and the simpler practical clinical methods of analysis are studied. It is the object of this course to prepare students for the thorough understanding of the laboratory aids in diagnosis in later courses. Five hours a week. Dr. Fishman. 2 hours.

Medicine 16b. Clinical Microscopy: Continuation of Medicine 15. Five hours a week. Dr. Fishman. 2 hours.

Medicine 17a. Clinical Microscopy: This course consists of practical work in the clinical laboratory. Specimens from the hospital and dispensary patients are studied and discussed by the students. Further work in clinical methods is undertaken and autopsies, when available, are observed. The theories of serum work are taught and the Wassermann test and the Noguchi Reaction demonstrated in a practical way. Special attention is paid to the interpretation of

the laboratory findings and to the relation of these findings to the clinical observations in the patient. Five hours a week. Dr. Fishman. 2 hours.

Medicine 18b. Clinical Microscopy: Coutinuation of Medicine 17. Five hours a week. Dr. Fishman. 2 hours.

Medicine 19a. Therapeutics: In this course the student is taught not only pharmaco-therapy, but also the fundamental principles of vaccine and serum therapy, mechanotherapy, hydrotherapy, climatotherapy, and psychotherapy. Two hours a week. Dr. Foster. 2 hours.

Medicine 20b. Therapeutics: A continuation of Medicine 19. Two hours a week. Dr. Foster. 2 hours.

Medicine 21a. Medical Ethics and Economics: A discussion of the ethics and economics of the profession. One hour a week. Dr. West. 1 hour.

Medicine 22b. Medical Jurisprudence: A discussion of the legal status of the physician. One hour a week. Dr. Messenbaugh. 1 hour.

Medicine 23a. Prescription Writing: Practice in prescription writing. One hour a week. Dr. Sorgatz. 1-2 hour.

Medicine 24b. Prescription Writing: A continuation of Medicine 23. One hour a week. Dr. Sorgatz. 1-2 hour.

Medicine 25a. Diseases of the Blood, Lymph, and Ductless Glands: This course consists of didactic lectures. One hour a week. Dr. West. Elective without credit.

Medicine 26a. Electro-Therapeutics and Radiography: The fundamentals of electricity as applied to therapeutics are given in an explicit and practical way by lectures and clinics. The aids given by the use of the galvanic, faradic, static, and high-frequency currents in so far as they have proven of greatest value will be demonstrated. The very important though limited use of the X-Ray as a therapeutic agent will be dwelt upon, with due precautions as to its handling. Radiographing will be taught and demonstrated in such manner that students shall have a good working knowledge for future development and interpretation. Martin's Practical Electro-Therapeutics and X-Ray Therapy. One hour a week. Dr. Lain. 1-2 hour.

Medicine 27b. Electro-Therapy and Radiography: A continuation of Medicine 26. One hour a week. Dr. Lain. 1-2 hour.

Medicine 28a. Clinical Pathology: Two hours a week clinical work. Dr. _____ 1 hour.

Medicine 29b. Clinical Pathology: Two hours a week clinical work. Dr. _____ 1 hour.

SURGERY

Professor Jolly; Associate Professors Riley, Reed, Blesh, Howard: Assistant Professors Hull, Kuhn, Lain, M. Smith, R. V. Smith, von Wedel, Watson

Surgery is taught in the recitation room, at the bedside, in the dispensary, at the hospital clinics and by lectures. In the third year the work is largely didactic instruction. In the fourth year the work is given in regional surgery and the special branches.

Surgery 1a. Principles of Surgery: The principles of surgery will be taught by lectures and recitations. The course covers surgical pathology, the process of inflammation and repair of tissues, injuries of the soft parts, bones and joints necrosis, and important surgical diseases. Two lectures a week and one quiz. Dr. Riley, Dr. R. V. Smith. 3 hours.

Surgery 2b. Principles of Surgery: Continuation of Surgery 1. One lecture a week and one quiz. Dr. Riley, Dr. R. V. Smith. 2 hours.

Surgery 3a. Fractures and Dislocations: A full series of didactic lectures illustrated by specimens and charts will be given on fractures and dislocations. Two hours. Dr. Blesh. 2 hours.

Surgery 4b. Tumors; A course of lectures on tumors, their characteristics, pathology, and differential diagnosis. One hour. Dr. Blesh. 1 hour.

Surgery 5a. Surgical Diagnosis: This course is devoted to surgical methods of diagnosis. Special emphasis is laid upon differentiation. One hour a week. Dr. Reed. 1 hour.

Surgery 6b. Surgical Diagnosis: A continuation of Surgery 5. One hour a week. Dr. Reed. 1 hour.

Surgery 7a. Regional Surgery: Regional Surgery will include surgery of the head, neck, thorax, abdomen, extremities, and blood vessels. One hour a week. Dr. Jolly. 1 hour.

Surgery 8b. Regional Surgery; A continuation of Surgery 7. Two hours a week. Dr. Jolly, Dr. Howard. 2 hours.

Surgery 9a. Clinical Surgery: Daily instruction, consisting of clinics, clinical lectures, and demonstrations. The student is required to take case histories, assist in examination, and collect all data of value in arriving at a diagnosis. He is required of familiarize himself with the methods of preparation for operation, and to follow closely the post-operative course and after-treatment of the patient. In the operating room the clinician takes up little time with operative procedures as applied to operations, but lays great stress upon the indications for and the results of those procedures. As the object of this course is to train skillful general practitioners rather than specialists,

emphasis is given to the subject of etiology, pathology, symptomatology, and diagnosis. Twenty hours of work in the surgical department of the dispensary is also required of each student. Here the student has the actual care of the cases and does all the work of examination, diagnosis and treatment under the supervision and direction of the instructor. Ten hours a week, twenty hours of dispensary work. Dr. Jolly, Dr. Riley, Dr. Reed, Dr. Blesh, Dr. Howard, Dr. M. Smith, Dr. Kuhn. 5 hours.

Surgery 10b. Clinical Surgery: A continuation of Surgery 9. Ten hours a week, and twenty hours of dispensary work. Dr. Jolly, Dr. Riley, Dr. Reed, Dr. Blesh, Dr. Howard, Dr. Kuhn, Dr. M. Smith. 5 hours.

Surgery 11a. Operative Surgery: In this course the student performs on the cadaver all the minor and major operations, approximately seventy in number. One hour a week. Dr. Watson. 1 hour.

Surgery 12b. Operative Surgery: In this course, the living subject is used whenever possible in order to familiarize the student with the handling of living tissues, the control of hemorrhages, the use of instruments and sutures under a rigid aseptic technic. Because of the many advantages of local anaesthesia it is used in the majority of operations, both major and minor. One hour a week. Dr. Watson, 1 hour.

Surgery 13a. Orthopedic Surgery: Instruction in this subject consists of lectures, recitations, and clinics. Besides lectures descriptive of the diseases leading to deformities, all of the important conditions are demonstrated in the clinic. The mechanical principles involved in the correction of deformities are fully discussed and the appliances and methods of application are demonstrated. Two hours a week. Dr. Hull. 1 1-2 hours.

Surgery 14b. Orthopedic Surgery: Continuation of Surgery 13. Two hours a week. Dr. Hull. 1 1-2 hours.

Surgery 15a. Rectal Surgery: In didactic lectures and clinical work, diseases of the sigmoid, rectum, and anus will be covered. The special anatomy, physiology, and embryology of the lower bowel will be reviewed and instruments for examination will be demonstrated. The more common diseases seen in general practice, such as the inflammatory diseases, malignant and non-maligant growths, will be studied. The latter part of the course will be devoted to operations, didactic and local anaesthesia being demonstrated. One hour a week. Dr. Will. 1 hour.

Surgery 16b. Minor Surgery and Bandaging: The course in minor surgery includes lectures and practical discussions on the surgery the general practitioner sees in his office with special reference

to minor injuries, the prevention of infection, the use of antiseptics, etc. Bandaging is demonstrated and individual instruction is given on the living subject. The course includes the use of plaster. One hour a week. Dr. von Wedel. 1 hour.

Surgery 17a. Anaesthetics: A special course in anaesthetics will be given to seniors. Instruction in this course, treating especially of the choice and administration of anaesthetics, will consist of lectures, clinical demonstrations and supervision of the administration of anaesthetics by the students themselves. Each senior student, under the supervision of the instructor, will administer an anaesthetic in at least six cases before graduating. Dr. Alford.

OBSTETRICS AND GYNECOLOGY

Professor Hatchett; Associate Professor Hartford; Assistant Professors Bevan, Cunningham, Looney, Rice

Obstetrics

Obstetrics 1a. The didactic work is given throughout the junior year and the clinical work chiefly in the senior year. Didactic lectures begin with the anatomy of the pelvis and the female generative organs in connection with the function of reproduction. A thorough course is given in embryology, tracing the changes in the ovum after fertilization and the development of the fetus. Ample time is devoted to the anomalies and the diseases of the faetal appendages. The physiology and diagnosis of pregnancy and the physiology and management of labor and the puerperium are treated fully. Two hours a week. Dr. Bevan. 2 hours.

Obstetrics 2b: A continuation of Obstetrics 1. One hour a week. Dr. Bevan. 1 hour.

Obstetrics 3a: Pathological pregnancy, labor and puerperium, and the diseases of the fetus are fully covered, with special reference to the complications of pregnancy, the management of difficult labor, postpartum hemorrhage, and puerperial infections. Operative obstetrics and the physiology and pathology of the new born infant are also fully covered. One hour a week. Dr. Hatchett. 1 hour.

Obstetrics 4b. A continuation of Obstetrics 3. Two hours, a week. Dr. Hatchett. 2 hours.

Obstetrics 5b. A thorough course of clinical demonstrations with the manikin is conducted by the clinical lecturer, in which the students are individually practiced. Clinics are held in the State University Hospital and teaching privileges have been accorded by the "Holmes Home of Redeeming Love", where a large number of maternity cases are cared for annually. An out-patient clinical department has been organized which offers treatment in the homes of those

who so desire. Each senior student is required to attend at least six cases of labor under the supervision of an instructor during the year. Two hours a week. Dr. Looney. 1 hour.

Gynecology

Gynecology 1a. The course treats of the physiology of the reproductive organs, etiology, symptoms, diagnosis and treatment of medical and surgical diseases of women. Two lectures a week and one quiz. Dr. Hartford, Dr. Rice. 3 hours.

Gynecology 3a. Clinical Gynecology: Methods of examination, diagnosis, traumatism, and uterine deviations. Two hours a week. Dr. Hartford, Dr. Cunningham. 1 hour.

Gynecology 4b. Clinical Gynecology: A continuation of Gynecology 3. Two hours a week. Dr. Hartford, Dr. Cunningham. 1 hour.

Gynecology 5a. Clinical Gynecology: Operative gynecology. Each student must also do ten hours work in the gynecological division of the dispensary. One hour a week and ten hours of dispensary work. Dr. Cunningham. 1-2 hour.

Gynecology 6b. Clinical Gynecology: A continuation of Gynecology 5. One hour a week and ten hours of dispensary wotk. Dr. Cunningham. 1-2 hour.

EYE, EAR, NOSE, AND THROAT DISEASES

Professors Ferguson, Buxton; Assistant Professors Davis, Todd

Eye Diseases

Eye Diseases 1a. Anatomy and Physiology of the Eye: Models, charts, and anatomical specimens, will be used to acquaint the student with the relation of the eye to the other parts of the head. One hour a week. Dr. Buxton. 1 hour.

Eye Diseases 2b. Diseases of the Eye: This course will give special attention to the more common kinds of eye diseases met by the general practitioner. The students will be taught how to use the opthalmoscope and will be give some practical instruction in refraction and correction of ocular errors. One hour a week. Dr. Ferguson. 1 hour.

Eye Diseases 3a. Clinic in Eye Diseases: Clinical lectures will be given as well as instruction, in which the methods of examination and diagnosis are demonstrated on the living subjects. Students will assist at operations and whenever possible follow the cases during convalesence. One hour a week. Dr. Ferguson, Dr. Buxton. 1-2 hour.

Eye Diseases 4b. Clinic in Eye Diseases: Continuation of

Eye Diseases 3. One hour a week. Dr. Ferguson, Dr. Buxton. 1-2 hour.

Ear, Nose, and Throat Diseases

Ear, Nose, and Throat Diseases Ia. Anatomy and Physiology of the Ear, Nose, and Throat: This course will cover in detail the anatomy, physiology and pathology of the ear, nose, and throat. The object of this course is to give the students a good working knowlege of the diseases of these structures commonly met in general practice. One hour a week. Dr. Davis. 1 hour.

Ear, Nose, and Throat Diseases 2b. A continuation of Ear, Nose, and Throat Diseases 1. One hour a week. Dr. Davis. 1 hour.

Ear, Nose, and Throat Diseases 3a. Clinic in Ear, Nose, and Throat Diseases: Practical instruction will be given in the medical and surgical treatment of diseases of the ear, nose, and throat, and each student will be granted an opportunity to examine the patients personally, and to follow up the cases throughout their entire treatment. One hour a week. Dr. Todd. 1-2 hour.

Ear, Nose, and Throat Diseases 4b. Clinic in Ear, Nose, and Throat Diseases: Continuation of Ear, Nose, and Throat Diseases 3. One hour a week. Dr. Todd. 1-2 hour.

GENITO-URINARY, SKIN, AND VENEREAL DISEASES

Associate Professor Day

Skin and Venereal Diseases

Skin and Veneral Diseases Ia. Lectures on skin and venereal diseases. Two hours a week. Dr. Day. 2 hours.

Skin and Veneral Diseases 3a. Clinic in skin and venereal diseases. One hour a week and ten hours of dispensary work. 1-2 hour.

Genito-Unitary Diseases

Genito-Urinary Diseases 2b: Lectures on genito-urinary diseases. Two hours a week. 2 hours.

Genito-Urinary Diseases 4b: Clinic in genito-urinary diseases. One hour a week and ten hours of dispensary work. 1-2 hour.

TRAINING SCHOOL FOR NURSES

The university offers at the State University Hospital in Oklahoma City, in connection with the School of Medicine, a three years' course of training in nursing upon the satisfactory completion of which a university diploma will be conferred, with the title of Graduate Nurse. This course is open only to women.

The State University Hospital is duly registered as a Training

School for Nurses and accepted as such by the Oklahoma State Board for examination and registration of nurses. A nurse who has received her certificate according to the provisions of this board shall be styled and known as a "Registered Nurse."

It is the aim of the school to fit a body of intelligent young women for one of the noblest, if not the noblest, professions open to women, to provide the city and the state with trained nurses of the highest standard, and to provide skilled workers to be co-laborers with the physician in caring for the sick and afflicted.

The profession of nursing cannot have ideals too high, or intelligence and culture too great, for it demands and commands the highest and best that can be put into it.

Admission

Applicants for admission to the school must possess good health and good moral character. Single women between twenty and thirty years of age are preferred. The minimum educational requirement is seven units as follows: but high school graduates and women of superior education and culture, who are otherwise qualified, are preferred.

English	2
Algebra	1
History	1
Latin	1
Electives	2
Total	7

For complete explanation of subjects required for admission see general catalogue under "Admission."

The number of applicants admitted will be limited to the needs of the hospital. When vacancies occur, women who cannot meet fully the educational requirements but who possess in marked degree other qualifications for efficiency, may be received at the discretion of the Dean of the School of Medicine.

Upon the approval of the superintendent of the hospital, candidates will be received for a probationary term of three months. At the end of the probationary term, if services and examinations have been satisfactory, probationers will be admitted as pupil nurses after signing an agreement to remain in the school for three years, including probationary term, subject to its rules and regulations. They will be given an allowance of $5.00 a month during the probationary term, $8.00 a month during the remainder of the first year, $10.00 a month during the second year, and $12.00 a month during the third year. This allowance is to cover the cost of uniforms and other necessary expenses of the period of training.

In illness all student nurses are cared for gratuitously, but time

lost through this or any other cause must be made up at the end of the term.

Plan of Instruction

The lectures and class work are given by different members of the faculty of the School of Medicine and by the superintendent. The general plan of instruction [subject to variations] is as follows:

The first three months are devoted to a course of preliminary study and practice covering: theory and practice of nursing [elementary], elementary bacteriology, household economy and serving of foods, hospital ethics. Class and demonstrations are held during the entire preliminary course, in addition to which the students are taught the practical part of nursing work and are made familiar with the various appliances and utensils used in nursing.

The object of the preliminary course is to provide the student before she is brought into contact with the patient with some of the fundamental knowledge upon which nursing depends and without which she is unprepared for the practical work. At the end of the probation period those accepted as regular pupils in the school are placed on duty in the wards of the hospital for further work and study.

The first year's theoretical work includes preliminary nursing as previously outlined and in addition: principles of nursing: fever nursing, including contagion; study of drugs and their administration; reviews and examinations.

The first year's practical work includes: practical work of preliminary course; medical nursing; elementary bacteriology; household economy and serving of foods; hospital ethics; ventilation; care of the ward and its furnishings; care and disinfection of mattresses, pillows and bed-linen; bed-making, including how to make a closed bed, a bed with a patient in it, how to change sheets, to turn and change a mattress with a patient in bed; care and comfort of patient; symptoms; how to take pulse, temperature, and respiration, and the significance of each; baths and packs.

Lectures are given by members of the faculty on the following subjects: materia medica; use and administration of drugs; organs of respiration; diseases of the thoracic cavity acute and chronic pneumonia, pleurisy, bronchitis and various forms of heart disease. medical emergencies: surgery; asepsis; antisepsis; operating-room; preparation of patient for operation; nurses place in surgical technique; after-care of patient; surgical emergencies and traumatic fever; anatomy and physiology; anaesthetics; dispensary work and bandaging.

Second year theoretical work includes: massage, obstetrical nursing, anatomy and physiology, reviews and examinations.

The practical work for the second year includes: operating-room

experience, dispensary work, special nursing and obstetrical nursing The school offers special advantages in obstetrical training and work. With an out-patient obstetrical clinic the nurse will have the unusual advantage of attending patients in the homes, working in conjunction with the attending physicians, giving help to the expectant mother by suggestion and advice, as well as assisting the accoucheur during the delivery.

The lectures during the second year cover: obstetrics; gynecology; anatomy and function of organs of digestion; physiology of food; organs of elimination; fever; poisons and antidotes; children's diseases; orthopedics; eye, ear, nose and throat; insanity; nervous diseases; parasitic diseases; abdominal surgery and transfusion of blood; wounds and methods of healing; fractures, dislocations and sprains; surgical hemorrhage.

Class work of the second year includes the study of counter-irritants; poultices and fomentations; uses of various douches; uses and varieties of various enemata; urine; lavage; gavage; accidents and emergencies; obstetrics; history, anatomy of pelvis; generative organs, their function and relative position; symptoms; hygiene and pathology of pregnancy and labor; nurse's duty during labor; puerperal care.

The third year includes dietetics, diet-kitchen experience, special nursing and executive work. A reasonable amount of night duty will be given each nurse during each year of her training.

Lecture and class work includes: lectures on special nursing subjects; ethics of private nursing; nursing sick children; reviews and examinations.

An affiliation has been formed with the State Hospital for the Insane, whereby an exchange of senior nurses may be made for a three months' period. This will offer to nurses of the Training School, who may wish to make a specialty of insane and nervous cases, an opportunity for special training in a high class institution devoted exclusively to these maladies.

The pupil nurse who has availed herself of the above opportunities for work and study, who has acquired concise, systematic, and clear methods of expression, should certainly be able to fill the responsible position of "Registered Nurse."

THE SCHOOL OF PHARMACY

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

CHARLES HOWARD STOCKING, Ph. C., B. S.
Dean of the School of Pharmacy, Professor of Pharmacy.

*EDWIN DEBARR, Ph. D.
Professor of Chemistry, Director of the School of Chemical Engineering, Vice-President of the University.

ALBERT HEALD VANVLEET, Ph. D.
Dean of the Graduate School, Professor of Biology.

SAMUEL WATSON REAVES, A. M.
Professor of Mathematics.

GUY YANDALL WILLIAMS, Ph. D.
Associate Professor of Chemistry.

THEODORE HAMPTON BREWER, M. A.
Professor of English Literature.

LUCILE DORA, M. A.
Professor of the Romance Languages and Literatures.

JOHN CHESTER DARLING, M. D.
Director of Physical Training.

CHARLES HENRY TAYLOR, M. S.
Professor of Geology, Director of the School of Mining Geology.

WILLIAM PETER HASEMAN, Ph. D.
Professor of Physics.

ROY TEMPLE HOUSE, A. M.
Professor of the Germanic Languages and Literatures.

GAYFREE ELLISON, B. S., M. D.
Professor of Bacteriology.

LLOYD BURGESS CURTIS, B. S.
Assistant Professor of Spanish.

HOWARD STORM BROWNE, Ph. C., M. S.
Assistant Professor of Pharmacy.

EARL SELLERS PORTER, A. M.
Instructor in Chemistry.

*On leave of absence.

THE SCHOOL OF PHARMACY

The School of Pharmacy, organized in 1893, is an integral part of the University of Oklahoma. It was the first school added to the university after the organization of the College of Arts and Sciences, and since its organization it has maintained a steady growth. The school offers thorough and practical courses in all the various subjects pertaining to pharmacy, and prepares the student to pursue any of the various branches of the profession.

Pharmacy is the science and art of preparing, compounding, preserving and dispensing medicines whether reference is made to the profession in the sense of either retail or wholesale relationship. The necessity for technical training in this subject is apparent to all who are seeking to prepare themselves for the more responsible positions, open only to those who are thoroughly trained as prescriptionists manufacturing pharmacists, or industrial and analytical chemists.

It is the aim of the School of Pharmacy to co-operate with the pharmacists of the state in their efforts to elevate and maintain the profession of pharmacy.

Registration as Pharmacists

No person is allowed to practice pharmacy unless he is registered by the State Board of Pharmacy. The board meets during the first week of January, of April, of July, and of October, to examine candidates who desire to obtain a license to practice pharmacy in the state. Graduates from the School of Pharmacy of the university who have had one year of experience are registered without examination on application and presentation of their diplomas.

TWO PLANS OF WORK

The school offers two separate plans of work. The two years' plan comprises four semesters of four and one-half months each. It equips the student for practical work with the minimum preparation. The four years' plan comprises academic as well as professional work, and is designed to give the student a liberal education as well as to fit him for work demanding a broader scientific and professional knowledge than may be acquired in the shorter time.

DEGREES

The degree of Pharmaceutical Chemist will be conferred upon a student who completes the plan of study outlined to cover two years with a total of 73 hours of credit, two hours of which must consist of physical training.

The degree of Bachelor of Science in pharmacy will be conferred upon a student who completes the plan of study outlined to cover four years with a total of at least 124 hours of credit.

ADMISSION

Applicants for admission to the School of Pharmacy should be at least seventeen years of age. Admission may be either by certificate or by examination. Graduates of affiliated high schools may present their certificates to the registrar on or before matriculation, as full credit will be given for all approved courses taken in such schools. Credentials from other high schools of recognized standing should be filed with the committee on admission at least two months before the opening of school. The committee will then have time to report to applicants upon what terms they may be admitted. All applicants who do not hold such certificates or credentials should present themselves for examination.

Admission may be either to first year work without condition, to work as an unclassified student, or to advanced standing.

Admission to First Year

The requirements for admission are usually stated in units. A unit is the standard amount of work required in a secondary school subject, given five times a week, thirty-six weeks, with recitation periods not less than forty minutes in length. A unit is also defined as one-fourth of an average year's work. Seven units properly selected will admit to the two-years' plan, and fifteen units properly selected, to the four-years' plan. The units required are given below:

	Two Year	Four Year
English	2	3
Algebra	1	1
Plane Geometry		1
History	1	1
Latin	1	2
Physics		1
Electives	2	6
Total	7	15

A more detailed statement of the university's plan of admission will be found in the general catalogue, under the head of "Admission."

Unclassified Students

Applicants for admission, twenty-one or more years of age, not candidates for a degree who wish to take certain courses in the School of Pharmacy without first bringing up the regular entrance requirements are admitted as unclassified students and permitted to take such courses upon giving satisfactory evidence that they are prepared to carry them to advantage. If they subsequently desire to become candidates for a degree, they must make up the entrance and all other requirements for the degree they may select.

Advanced Standing

Advanced standing will be given for any work properly done in a school having equal entrance and other requirements. Application must be made for advanced standing at matriculation.

Tuition

Tuition is free in all departments of the university. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

In laboratory courses students must pay the actual cost of material used in accordance with the statement under the heading "Fees and Deposits," under General Information in the general catalogue.

LABORATORIES

Chemical and Pharmaceutical Laboratories

The laboratories comprise well equipped rooms in the Science Hal as follows:

Two general lecture rooms.
A laboratory of general chemistry.
Two laboraties of quantitive and organic chemistry.
A research laboratory.
Three private laboratories and offices.
A laboratory for water and food analysis.
A dispensing room.
A balance room.
A general pharmacy laboratory.
A pharmacognosy and prescription room.
A private pharmacy room and office.
An instrument room.

TEXTS

Stevens' Pharmacy and Dispensing.
Scoville's Art of Compounding.
The United State Pharmacopoeia.
Ruddiman's Whys in Pharmacy.
Kahlenberg's Outlines of Chemistry.
Prescott and Johnson's Qualitative Analysis.
Perkin and Kipping's Organic Chemistry.
Kraemer's Botany and Pharmacognosy.
Culbreth's Materia Medica and Pharmacology.
Sturmer's Arithmetic of Pharmacy.
Tyrode's Pharmacology.
Hough and Sedgwick's Human Mechanism.

REFERENCE BOOKS

The United States Dispensatory.
The National Standard Dispensatory.
Dorland's American Medical Dictionary.
Arny's Principles of Pharmacy.

PHARMACY AS A PROFESSION

Never before have opportunities in pharmacy been so great and never in its history has this profession rendered a more important service to mankind. The many advances in the science of medicine and the enactment of important laws both state and national, regulating the manufacture and sale of drugs and medicines have stimulated a cooperative advancement along pharmaceutical lines. The opportunities that are open to those who would keep pace with these advancements are innumerable. Analytical and research chemists with a knowledge of pharmacy have no difficulty in obtaining remunerative and attractive positions in manufacturing plants and in municipal, state and national laboratories. The practicing pharmacist in every community occupies a position of importance and responsibility surrounded with opportunities limited only by his own ability as determined by his native talent and the extent to which these have been trained in the science.

PURE FOOD AND DRUG COURSES

Since the passage of the National Food and Drug Act of June 30, 1906, there has developed an increasing need for trained chemical, pharmaceutical and microscopical analysts to fill positions for the United States Government, in State Public Health, Pure Food and

Drug Laboratories, for large manufacturing houses and dealers in drugs and chemicals.

The State Pure Food and Drug and Public Health Laboratories are located at the university. The School of Pharmacy is very closely associated with this department and students of the school have free access to the laboratories and may elect courses in Food, Drug and Sanitary Water analysis. The laboratories are splendidly equipped with polariscopes, extraction apparatus, centrifuges and all other instruments and equipment needed in carrying on the various phases of the work.

Graduates of the four year course in pharmacy are eligible for positions as food, drug and sanitary analysts for the government, the various states and commercial houses. Students in the School of Pharmacy are especially pepared to pursue this class of work since pharmacy plays as large a part in the analytical work as does chemistry.

PHYSICAL TRAINING

All students in the School of Pharmacy, except those who are admitted with one or more years of advanced standing or with a year of college work, are required to take physical training to the extent of two hours during their course. Such "hour" represents approximately three hours of exercise a week during one semester.

The systematic participation in athletic sports, such as football, baseball, tennis, basket ball, boxing, fencing, wrestling and track athletics under the direction of the physical director or coach is regarded as fulfilling these requirements.

PRIZES

The John Barbour Prizes: Senior Prize: Recommendation to membership in the American Pharmaceutical Association with one year's dues to each of two senior students in the School of Pharmacy receiving the highest grades in all courses pursued during their senior year.

Junior Prize: A leather bound indexed copy of the National Standard Dispensatory to the junior student who receives the best average grade in all branches.

Howard Storm Browne Prize: Recommendation to membership in the American Pharmaceutical Association with one year's dues to the student receiving the best grade in Materia Medica 4.

SPECIAL LECTURES

Lectures on the subject of pharmaceutical jurisprudence are delivered by members of the faculty of the School of Law. Each lecturer

being a recognized authority on the subject assigned to him, the students of the School of Pharmacy enjoy an unusual privilege in their study of law in its relation to the pharmacist.

Other lectures on subjects of interest to the profession are given from time to time by out of town speakers.

WASHBURN CLUB

This club has been organized in order to bring into closer relation the School of Pharmacy at the University of Oklahoma and the students and faculty of the School of Pharmacy, to upbuild the school, to promote the mutual welfare of the students and faculty, and to perpetuate friendship and good fellowship with one another.

All students enrolled in the School of Pharmacy are eligible to membership. Meetings are held on the first and third Friday nights of each month during the college year. An address is usually given by an outside speaker upon a subject of special interest to pharmacy students. In addition to this part of the program the students obtain valuable drill in parlimentary practise and discuss current topics relative to pharmacy.

READING TABLE

The reading table of the School of Pharmacy is well supplied with a large number of the best drug journals published. Among them are the following named journals: Bulletin of Pharmacy; Western Druggist; Pharmaceutical Era; Pacific Drug Review; Meyer Brothers Druggist; McPikes Bi-Monthly; Western Drug Record; Northwestern Druggist; Midland Druggist and Pharmaceutical Review; The Apothecary; The Spatula; The Southern Pharmaceutical Journal; The Western Drug Record.

OUTLINE OF WORK

Outline of Courses Leading to the Degree of Pharmaceutical Chemist

First Year

First Semester		Second Semester	
Pharmacy 1	4	Chemistry 2	4
Pharmacy 2	4	Chemistry 4	4
Chemistry 1	4	Materia Medica 3	4
Botany 3	4	Botany 4	4
Physical Training 1	1	Physical Training 2	1
	17		17

Second Year

First Semester		Second Semester	
Pharmacy 4	2	Pharmacy 3	4
Bacteriology 5	2	Pharmacy 6	2
Chemistry 5	4	Pharmacy 5	2
Chemistry 121	4	Chemistry 122	4
Materia Medica 4	4	Chemistry 125	2
		Materia Medica 5	4
	16		18

In the above courses of instruction, it is the aim of the faculty to follow as nearly as practicable the outlines of courses given in the Pharmaceutical Syllabus as recommended by the National Committee.

Outline of Courses Leading to the Degree of Bachelor of Science in Pharmacy

First Year

First Semester		Second Semester	
English 1	4	English 2	4
German 1	4	German 2	4
Chemistry 1	4	Chemistry 2	4
Botany 3	4	Botany 4	4
Physical Training 1	1	Physical Training 2	1
	17		17

Second Year

First Semester		Second Semester	
German 3	4	German 4	4
Pharmacy 1	4	Materia Medica 3	4
Pharmacy 2	4	Chemistry 4	4
Electives	4	Electives	4
	16		16

Third Year

First Semester		Second Semester	
Chemistry 121	4	Chemistry 5	4
Geology 3	4	Pharmacy 3	4
Math. 5	4	Pharmacy 6	2
Electives	4	Electives	6
	16		16

Fourth Year

First Semester		Second Semester	
Materia Medica 4	4	Pharmacy 5	4
Pharmacy 4	2	Materia Medica 5	4
Physics 1	4	Chemistry 125	2
Electives	4	Chemistry 126	5
	14		15

Every candidate for the degree of Bachelor Science in pharmacy must enroll in the required courses as outlined and in addition must choose enough elective courses to complete a total of at least 124 hours of credit. Suggested electives are; Water Analysis, Bacteriology, Botany and Hygiene. French 1 and 2 or Spanish 1 and 2 may be substituted in place of German 3 and 4 at the discretion of the faculty.

DESCRIPTION OF COURSES

BACTERIOLOGY

Professor Ellison

Bacteriology 5a. Pharmaceutical Bacteriology: A study of the fundamental principles of bacteriology, the relation of bacteria to disease, the study of the specific micro organisms of disease; immunity and serum therapy; the preparation and standardization of bacterines, serums, and antitoxins; and disinfectants. This course is designed especially for students of pharmacy. Lectures, assigned readings and demonstrations. 2 hours.

BOTANY

Professor Van Vleet

Botany Ia. General Botany: Instruction in this course is divided into two periods. The first period extends from the beginning of the semester to the middle of November. The second period includes the remainder of the semester. 4 hours.

Botany 3: See Materia Medica. Botany 4: See Materia Medica.

Botany 101a. Physiology and Ecology: A study of the principal physiological processes, viz., Photosynthesis, respiration, transpiration, absorption, conduction, digestion, assimilation, nutrition, and growth: pollination, fertilization, reproduction and seed distribution; response to environment, and the origin of new forms by selection, mutation, hybridization and adaption; grouping, invasion, succession, zonation. Open to students who have completed Botany 1 and 2. Four lectures and four hours laboratory or field work. 4 hours.

Botany 102b. Sysematic Botany: A study of the development and genetic relationships of angiosperms. Opportunity is afforded students to become proficient in in the determination of species and types. Lectures, laboratory, and field work. Open to students who have completed Botany 1 and 2. 4 hours.

CHEMISTRY

Professor DeBarr, Associate Professor Williams, Mr. Porter, Mr. Monroe

Chemistry Ia. General Chemistry for Pharmacy Students: A general introductory course consisting of three lectures and two laboratory periods each week. The work of this course embraces the con-

sideration of the general principles of chemistry, the study of the non-metals and certain inorganic preparations. Deposit required. Associate Professor Williams and _____ 4 hours.

Chemistry 2b. General Chemistry: Laboratory and lectures. Prerequisite, Chemistry 1. Deposit required. Kahlenberg's Chemistry. Mr. Monroe. 4 hours.

Chemistry 4. Analytical Chemistry: Analysis of unknowns. Laboratory and lectures. Prerequisite, Chemistry 1. and 2. Deposit required. Prescott and Johnson's Qualitative Chemical Analysis. Associate Professor Williams. 4 hours.

Chemistry 5. Quantitative Analysis: Volumetric and gravimetric estimations. Lectures and laboratory. Prerequisite, Chemistry 4. Deposit required. Mr. Porter. 4 hours.

Chemistry 105b. Water Analysis: A study of sanitary, sewage, and mineral waters. Prerequisite, Chemistry 5. Deposit required. Associate Professor Williams. 4 hours.

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisite, Chemistry 5. Perkin and Kipping's Organic Chemistry. Deposit required. Professor DeBarr. 4 hours.

Chemistry 122b. Organic Analysis: Analysis of alkaloids and organic acids. Examination of fat and oils. Prerequisite, Chemistry 121. Deposit required. Text, Prescott's Organic Analysis. Professor DeBarr. 4 hours.

Chemistry 125b. Toxicology: A study of poisons. Lectures and laboratory. This course embraces a study of the symptoms, post-mortem appearances, antidotes attendant upon poisoning, and the recovery of the poisons from the various organs of the body. Prerequisite, Chemistry 121. Deposit required. Associate Professor Williams. 2 hours.

Chemistry 126. Chemistry and Composition of Food Products: A study of food-stuffs and their adulteration. Lectures, recitations, and laboratory. Prerequisite, Chemistry 5 and Chemistry 121. Deposit required. A student may take this course more than once and receive credit each time, provided the work is not duplicated. Mr. Porter. 5 hours.

ENGLISH

Professor Brewer

English 1a. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence; daily and fortnightly themes. Required of all candidates for the bachelor's degree. This course is the basis of all later work in composition and

only under exceptional circumstances will work done elsewhere be substituted for it. 4 hours.

The course is given in seven sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, and Mr. Wells. 4 hours.

English 2b. First Principles of English Composition: Lectures on words, with a study of selected examples of nineteenth century prose and poetry; daily and fortnightly themes at intervals, with a special study of the works of one writer. English 2 is a continuation of and presupposes English 1. Required of all candidates for the bachelor's degree. 4 hours.

The course is given in seven sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, and Mr. Wells. 4 hours.

GEOLOGY

Professor Taylor

Geology 3b. Elementary Mineralogy and Economic Geology: A megascopic determination of the more important rock-making minerals and ores. A brief discussion of the origin, mineral and chemical composition, and classification of rocks. This course is designed to meet the needs of high school teachers and others not planning to take their major work in geology. Desirable antecedents: Chemistry 1. Professor Taylor, 4 hours.

GERMAN

Professor House

German Ia. Beginning German: Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Prerequisite, two years of foreign language. Becker-Rhoades' Elements of German and Bacon's Im Vaterland. Professor House and Associate Professor Voss. 4 hours.

German 2b. Beginning German: Bacon's Im Vaterland continued. Continuation of Becker-Rhoades' Elements of German. Prerequisite, German 1. Professor House and Associate Professor Voss. 4 hours.

German 3a. German Prose and Poetry: Two standard works such as Schiller's Wilhelm Tell and Freytag's Die Journalisten are read in class. One hour a week is devoted to the study of prose composition, and advanced syntax and drill in conversation accompanies each lesson. Osthaus and Biermann's Prose Composition and Voss and House's "Wie der Deutsche Spricht." Prerequisite, German 1 and 2. Professor House and Associate Professor Voss. 4 hours.

German 4b. German Prose and Poetry: Reading and critical study of representative German ballads and lyrics. Dillard's

Aus dem Deutschen Dichterwald and a prose text such as Heine's Harzreise. Study of Osthaus and Biermann's Prose Composition and Voss and House's Conversational German continued. Reports upon assigned readings. German is the language of the class room. Prerequisite, German 1, 2, 3. Professor House and Associate Professor Voss.

4 hours.

HYGIENE

Professor Ellison

Hygiene Ib. Principles of Hygiene and Sanitation: A course of lectures and demonstrations with assigned readings, taking up the subjects of ventilation, heating, food, digestion, disinfection, contagious diseases, water supplies, sewage, and sanitation, with methods of control and suppression of epidemics. 3 hours.

MATERIA MEDICA

Professor Van Vleet, Assistant Professor Browne

Botany 3a. Pharmaceutical Botany: A study of the general morphology and histology of plants. For students of Pharmacy only. Lectures, text, and laboratory. 4 hours.

Botany 4b. Pharmaceutical Botany: Instruction in this course is divided into two periods. Period 1 extends from the beginning of the beginning of the semester to the first of April. Period 2 includes the remainder of the semester, 4 hours.

Materia Medica 3b. Elementary Physiology: This course deals in a practical way with the physiological functions of the various organs of the body together with the physiological action of typical drugs on the various organs. Text, Hough and Sedgwick's Human Mechanism. Assistant Professor Browne. 4 hours.

Materia Medica 4a. Pharmacognosy: A study of the official vegetable, animal and more important non-official drugs with special reference to growth, identification, collection, preparation for the market, medicinal constituents, official preparations and dose. Lectures and recitations; Culbreth's Materia Medica and Pharmacology. Fee, $1.00. Assistant Professor Browne. 4 hours.

Materia Medica 5b. Pharmacology and Therapeutics: This course deals with the Pharmaco and Therapy Dynamics of the more important drugs, both official and non-official. Assistant Professor Browne. 4 hours.

MATHEMATICS

Professor Reaves

Mathematics 5a. College Algebra: Embracing the subjects of imaginaries, variables and limits, permutations and combinations,

binomial theorem, series, undetermined coefficients, logarithms, determinants, and theory of equations. This course presupposes a minimum of one and one-half years in algebra. Three sections, Professor Reaves, Associate Professor Kent. 4 hours.

PHARMACY

Professor Stocking, Assistant Professor Browne

Pharmacy Ia. Theoretical Pharmacy: A study of the principles of pharmacy together with sufficient demonstrations to illustrate their application. Pharmaceutical arithmetic and pharmaceutical Latin are included. Lectures and recitations. Stevens' Pharmacy and Dispensing. 4 hours.

Pharmacy 2a. Official Pharmacy and Pharmaceutical Technique: A study of the processes involved in the manufacture of the galenical preparations of the United States Pharmacopoeia and the National Formulary. Consideration is also given to the study of the drugs which are used in the manufacture of the various types of preparations. In this course the student makes about one hundred preparations including several of each pharmaceutical type as well as a number of non-official preparations. Recitations and laboratory work. Deposit required. 4 hours.

Pharmacy 3b. Official Pharmacy and Pharmaceutical Technique: A continuation of course 2a. The more difficult preparations of the United States Pharmacopoeia and those in which chemical changes play an important part are studied in class and are manufactured by the student in the laboratory. The finished preparations and the ingredients of each are studied with reference to standard requirements including solubilities, tests for purity and identity, assay methods and dosage. Each student manufactures about sixty preparations. Recitations and laboratory work. Deposit required. 4 hours.

Pharmacy 4a. Prescriptions: This course consists of class exercises devoted to the study of prescriptions with special reference to chemical, physical and therapeutical incompatibilities. The student is taught to read and write prescriptions properly. Lectures and recitations. Prerequisites Pharmacy 1 and 2 and Chemistry 1, 2 and 4. 2 hours.

Pharmacy 5b. Prescriptions: Laboratory exercises embracing the practical applications of the latest and best methods of compounding, including the dispensing of such prescriptions as hypodermic and compressed tablets, soluble elastic capsules, suppositories, emulsions, etc. Prerequisites, Pharmacy 1, 2 and 4, and Chemistry 1, 2 and 4. Deposit required. 2 hours.

Pharmacy 6b. Commercial Pharmacy: A course of practical lectures on drug store management including instruction concerning

store location, equipment and arrangement. Drug store merchandizing will also receive consideration. 2 hours.

Pharmacy 7b. Pharmaceutical Methods: A course in elementary pharmacy for medical students. The student makes preparations of each pharmaceutical type contained in the United States Pharmacopoeia, as pills, powders, waters, decoctions, solutions, tinctures, emulsions, and liniments. Practice in prescription dispensing, and the making of stupes, poultices, plasters, and medicated baths. Recitations and laboratory work. Deposit required. 2 hours.

PHYSICS

Professor Haseman

Physics Ia. General Physics: Mechanics, sound, heat. Lectures, recitations, laboratory, and assigned reading. A beginning course in college physics. Three class periods and one laboratory period. 4 hours.

PHYSICAL TRAINING

Director Darling

Physical Training Ia. Marching, calisthenics, Indian clubs, and dumb-bells. Required of freshmen. Dr. Darling. 1 hour.

Physical Training 2b. A continuation of Course 1 with the addition of elementary work on heavy apparatus. Required of freshmen. Dr. Darling. 1 hour.

ROMANCE LANGUAGES

Professor Dora, Assistant Professor Curtis

French Ia. Beginning French: Essentials of grammar, practice in colloquial French, prose composition, reading of easy texts. Special attention will be given to the French verb and to word order. Fraser and Squair's French Grammar, Super's French Reader, Merimee's Colomba, and Halevy's L'Abbe Constantin. Given in two sections. Professor Dora. 4 hours.

French 2b. Intermediate French: Systematic study of grammar, French conversation, sight reading, parallel work. Fraser and Squair's Grammar, Cameron's Contes de Daudet, Merimee's Carmen, Scribe et Legouve's Bataille de Dames. Given in two sections. Professor Dora. 4 hours.

Spanish Ia. Elementary Spanish: Constant drill in pronunciation, the conjugations, and spoken Spanish. Practice in writing from dictation. Reading of short stories of moderate difficulty. Elementary composition. Assistant Professor Curtis. 4 hours.

Spanish 2b. Intermediate Spanish: Reading of modern prose, such as selections from the writings of Alarcon's Galdos, Valdes, Bazan, etc. Study of special grammatical constructions. Assistant Professor Curtis. 4 hours.

THE COLLEGE OF ENGINEERING

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

JAMES HUSTON FELGAR, A. B., M. E.
Dean of the College of Engineering, Professor of Mechanical Engineering.

*EDWIN DEBARR, Ph. D.
Professor of Chemistry, Director of the School of Chemical Engineering, Vice-President of the University.

HAROLD VEATCH BOZELL, B. S.
Director of the School of Electrical Engineering, Professor of Electrical Engineering.

CHARLES HENRY TAYLOR, M. S.
Professor of Geology, Director of the School of Mining Geology.

JAMES I. TUCKER, B. S. L. L. B.
Director of the School of Civil Engineering, Professor of Civil Engineering.

HERBERT BANCROFT DWIGHT, B. S.
Professor of Mechanics and Instructor in Drawing.

SAMUEL WATSON REAVES, A. M.
Professor of Mathematics.

GUY YANDALL WILLIAMS, Ph. D.
Associate Professor of Chemistry.

JEROME DOWD, M. A.
Professor of Sociology and Economics.

THEODORE HAMPTON BREWER, M. A.
Professor of English Literature.

LOUIS ALVIN TURLEY, A. M.
Professor of Histology and Pathology.

JOHN CHESTER DARLING, M. S., M. D.
Physical Director.

*On leave of absence.

William Peter Haseman, Ph. D.
Professor of Physics.

Roy Temple House, A. M.
Professor of the Germanic Languages and Literatures.

Frederick Charles Kent, B. S.
Associate Professor of Mathematics.

Irving Perrine, Ph. D.
Professor of Stratigraphic Geology and Paleontology.

Gayfree Ellison, B. S., M. D.
Professor of Bacteriology.

Louisa Brooke, B. A.
Assistant Professor of English, Adviser of Women.

William Aitkenhead, B. S., M. A.
Assistant Professor of Mechanical Engineering and Superintendent of Shop Work.

Arthur Barto Adams, A. B.
Assistant Professor of Economics.

Lester William Wallace Morrow,
Assistant Professor of Electrical Engineering.

William Robinson Molinard, E. E.
Lecturer in Electrical Engineering.

Earl Sellers Porter, A. M.
Instructor in Chemistry.

Kenneth Potter Monroe, B. S.
Instructor in Chemistry.

Frank Lloyd Weaver, B. S.
Instructor in Civil Engineering.

David Ellery Renshaw,
Fellow in Electrical Engineering.

THE COLLEGE OF ENGINEERING

The College of Engineering of the University of Oklahoma is a school for the higher education of young men in engineering. Its courses of instruction include chemical, civil, electrical, mechanical, and mining engineering and are based upon drawing, mathematics, physics, chemistry, and shop practice.

Some eighty years ago Tredgold defined engineering as "directing the sources of power in nature to the use and convenience of man." The man who would follow the profession so defined must be a man of science as well as a man of business. It is for this reason that a systematic mental training in technology, before entering engineering practice, is so desirable. The profession of the engineer is relatively a new one, yet the men of the future who will occupy the leading positions as engineers and managers will probably be those who have had a college training and have taken the best advantage of the opportunity.

The preparatory training that one receives in a technical school gives one knowledge of the fundamental principles of the sciences that underlie all engineering practice, and, by a judicious introduction of laboratory practice and laboratory methods into courses formerly consisting entirely of theoretical and text-book work, the student learns the "how" as well as the "why" in the application of the science. The man who knows "how" to do certain things but does not know "why" usually remains in a subordinate position.

In the modern technical school the student is first made acquainted with the theory of principles and then in the shops and laboratories he verifies this theory. The theoretical and text-book work is supplemented by experiments and investigations in the laboratories. The student thus cultivates accuracy and clearness of thought, the essential qualities of a good engineer.

The performance of laboratory experiments with all the apparatus assembled ready to hand and all the directions explicitly given is apt to become purely mechanical and of very questionable educational value. Such exercises, though usually called practical, have really little of practice in them. In actual practice the engineer is confronted with difficulties which he can overcome by a

knowledge of underlying principles and his ability to create and assemble his own apparatus. The laboratories and shops of the College of Engineering have been especially equipped for the purpose of illustrating the fundamental principles of engineering.

Schools

The College of Engineering includes the Schools of Chemical, Civil, Electrical, and Mechanical Engineering, and the School of Mining Geology. An outline of the courses required of the students in each of the schools will be found in the following pages. The total number of hours required for graduation is fixed at 140.

Thesis

Each candidate for a degree in engineering will be required to prepare a thesis on some special engineering subject, or elect such engineering work for the required number of units as may be determined upon in consultation with the director of the school. The thesis may be a test of a power plant, a design of a machine or a piece of apparatus, or the investigation of some process of manufacture. Whatever the subject selected, the thesis must show original work or investigation and be as complete an exposition on the subject as possible. The subject for the thesis must be selected at the beginning of the senior year, and the thesis presented for approval not later than the first Monday in May before graduation.

Original typewritten copy or drawings, which shall become the property of the university, must be presented, and any machine or piece of apparatus constructed for this thesis shall also belong, to the university.

Degree

The degree of Bachelor of Science, qualified by the name of the school in which the work is done, is conferred upon graduates of the College of Engineering.

POSITIONS

No institution of learning can guarantee a position to every one of its graduates. The giving of employment is wholly beyond control of such an institution. The university authorities will use their best efforts to aid worthy graduates in securing suitable positions.

So far the university has been unable to meet the demand for technically trained men, and many are tempted by offer of lucrative positions to leave school before graduation. The College of Engineering of the University of Oklahoma, whose requirements for admission cover the work of a high school course, offers advanced and thorough courses to those seeking a technical education. Those who have had the most thorough and advanced training can, of course, hope to se-

cure the most desirable positions. Those who have made the necessary preparation are almost certain to secure positions of responsibility and trust.

ADMISSION

Applicants for admission to the College of Engineering should be at least sixteen years of age. Admission may be either by certificate or examination. Graduates of affiliated schools may present their certificates to the registrar on or before matriculation, as full credit will be given for all approved courses taken in such schools. Credentials from other high schools of recognized standing should be filed with the committee on admission at least one month before the opening of school. The committee will then have time to report to applicants upon what terms they may be admitted. All applicants who do not hold such certificates or credentials should present themselves for examination.

NOTE: A more detailed statement of the university's plan of admission will be found in the general catalogue, under the head of Admission, or in the separate bulletin dealing with admission.

Admission may be either to first year work without condition, to work as an unclassified student, or to advanced standing.

Admission to First Year

The requirements for admission are usually stated in units. A unit is the standard amount of work required in a secondary school subject, given five times a week, thirty-six weeks, with recitation periods not less than forty minutes in length. A unit is also defined as one-fourth of an average year's work. Fifteen units properly selected will admit to the first year's work without condition. The units required are given below:

English	3
Algebra	1 1-2
Geometry	1 1-2
History	1
One Foriegn Language †	2
*Physics	1
Electives	5
Total	15

*Chemistry, one unit; botany, one unit; zoology, one unit; or botany and zoology, one-half unit each, may be substituted.

†Must be German in Chemical Engineering.

Unclassified Students

Applicants for admission, not candidates for a degree, may be admitted to work suited to their needs with the approval of the dean

Such applicants must be twenty-one years of age, or must satisfy the requirements for admission to candidacy for a degree.

High school graduates presenting the equivalent of at least twelve admission units may be admitted to part of the first-year work, while making up deficiencies.

Advanced Standing

Advanced standing will be given for any work properly done in a school having equal entrance and other requirements. Application must be made for advanced standing at matriculation.

EQUIPMENT

For a description of the laboratories, buildings, etc., and for other information concerning the College of Engineering, consult the proper section in the general catalogue.

OUTLINE OF THE WORK OF THE SEVERAL SCHOOLS

First Year Engineering—All Schools

First Semester		Second Semester	
*Chem. 3 or Chem. 1	4	Chem. 7	4
English 1	4	English 2	4
Math. 5	4	Drawing 2	2
Math. 6	2	Math. 14	4
Drawing 1	2	Shop 2	2
Shop 1	1	Phys. Tr. 2	
Phys. Tr. 1			
Freshman Conference		Freshman Conference	
	17		16

Chemical Engineering

Second Year

First Semester		Second Semester	
Math. 17	4	Math. 118	4
Physics 51	5	Physics 52	5
Chem. 5	4	Chem. 102	4
German 9	2	German 10	2
Chem. 103	2	Economics 8	2
	17		17

Third Year

First Semester		Second Semester	
Chem. 121	4	Chem. 122	4
Mech. 51	4	Chem. 123	2
Mech. 52	2	Mech. 53	4
M. E. 1	4	Mech. 54	2
M. E. 61	1	Geol. 1	4
English 9	2	Eng. Conts. 51	2
	17		18

Fourth Year

First Semester		Second Semester	
Chem. 104	4	Chem. 106	5
Chem. 152	4	Chem. 51	4
Bacteriology 1	4	Bacteriology 3	3
E. E. 55	2	E. E. 56	2
Chem. 52	2	Thesis	5
Thesis	3		
	19		19

*Students who have not had high school chemistry, take Chemistry 1.

Civil Engineering

Second Year

First Semester		Second Semester	
Math. 17	4	Math. 118	4
Physics 51	5	Physics 52	5
Mech. Drawing 3	3	C. E. 2	4
C. E. 1	4	C. E. 3	4
		Economics 8	2
	16		19

Third Year

First Semester		Second Semester	
Mech. 51	4	Mech. 53	4
Geol. 1	4	Mech. 54	2
C. E. 51	4	C. E. 52	4
Mech. 52	2	C. E. 53	3
M. E. 1	4	C. E. 54	2
		Mech. 55	3
	18		18

Fourth Year

First Semester		Second Semester	
C. E. 55	3	C. E. 57	2
C. E. 56	2	C. E. 58	4
C. E. 59	3	E. E. 53	3
E. E. 51	3	E. E. 54	1
E. E. 52	1	C. E. 60	2
Bacteriology 1	4	Eng. Contracts 51	2
English 9	2	Bacteriology 3	4
	18		18

Electrical Engineering

Second Year

First Semester		Second Semester	
Math. 17	4	Math. 118	4
Physics 51	5	Physics 52	5
Mech. Draw. 3	3	M. E. 4	4
Mech. Draw. 4	2	Mech. Draw. 5	2
M. E. 1	4	Shop 4b	1
Shop 3	1	Economics 8	2
	19		18

Third Year

First Semester		Second Semester	
Mechanics 51	4	Mech. 53	4
Mechanics 52	2	Mech. 54	2
M.E. 59	2	Math. 122	3
Physics 105	1	Chem. 51	4
Physics 104	4	E. E. 62	1
E. E. 61	4	E. E. 63	4
E. E. 62	1	E. E. 64	1
M. E. 60	1		
	19		19

Fourth Year

First Semester		Second Semester	
C. E. 1	4	Mechanics 55	3
Eng. 9	2	Eng. Contracts 51	2
E. E. 71	4	E. E. 75	2
E. E. 72	2	E. E. 76	2
E. E. 73	2	E. E. 77	2
E. E. 74	3	E. E. 78	2
		E. E. 79	2
		E. E. 80	
		E. E. 81	
	17		15

Mechanical Engineering

Second Year

First Semester		Second Semester	
Math. 17	4	Math. 118	4
Mech. Draw. 3	3	M. E. 2	4
Physics 51	5	Physics 52	5
M. E. 1	4	M. E. 4	4
Mech. Draw. 4	2	Mech. Draw. 5	2
Shop 3	1	Shop 4	1
	19		20

Third Year

First Semester		Second Semester	
Mech. 51	4	Mech. 53	4
Mech. 52	2	Mech. 55	3
M. E. 58	4	M. E. 54	4
M. E. 53	2	M. E. 52	2
M. E. 51	2	Mech. 54	2
Mech. Draw. 51	2	M. E. 62	1
M. E. 3	1	Economics 8	2
M. E. 61	1		
	18		18

Fourth Year

First Semester		Second Semester	
M. E. 63	3	M. E. 64	4
M. E. 55	2	M. E. 65	2
English 9	2	E. E. 53	3
C. E. 1	4	E. E. 54	1
M. E. 56	2	Engineering Contracts 51	2
E. E. 51	3	M. E. 66	2
E. E. 52	1	M. E. 57	2
		M. E. 67	2
	17		15

Mining Geology

Second Year

First Semester		Second Semester	
Physics 2	5	Physics 3	5
Math. 17	4	Chem. 2	4
C. E. 1	4	Chem. 5	4
Geol. 1	4	Geol. 2	4
		Economics 8	2
	17		19

Third Year

First Semester		Second Semester	
M. E. 1	4	C. E. 2	4
Geol. 102	3	Mech. 52	4
Chem. 101	4	Geol. 103	3
Mining Geol. 51	3	Mining Geol. 52	4
Mech. 51	4	Mech. 54	2
Mech. 52	2		
	20		17

Fourth Year

First Semester		Second Semester	
E. E. 51	3	E. E. 53	3
E. E. 52	1	E. E. 54	1
Mining Geol. 53	3	Geol. 104	4
Mining Geol. 54	3	Eng. Contracts 51	2
Mining Geol. 55	4	Mech. 54	3
Mining Geol. 56	2	Mining Geol. 57	4
English 9	2	Thesis	
	17		17

DESCRIPTION OF COURSES

BACTERIOLOGY

Professor Ellison

Bacteriology Ia. General Bacteriology: This course includes a detailed study of the more important forms of pathogenic and non-pathogenic organisms with methods of their isolation from body fluids, water foods, etc., and their relation to human life. Lectures, laboratory, assigned readings, and reports. Muir and Ritchie, and Heinneman. Required of medical students. Lectures and laboratory. Deposit required. 4 hours.

Bacteriology 3b. Sanitary Bacteriology: A study of the fundamental bacterial activity; the analysis of water, soil, and milk, the testing of disinfectants; a study of septic tanks and the problems of public sanitation. This course is designed especially for students in engineering. Prerequisite, Bacteriology 1. Not open to students in medicine. Laboratory, conferences, and lectures. Deposit required. 4 hours.

CHEMICAL ENGINEERING

Professor DeBarr, Associate Professor Williams, Mr. Porter, Mr. Monroe

Chemistry I. General Chemistry: Laboratory and lectures with recitations. Students are required to use the chemicals and chemical apparatus of the laboratory in this course. Deposit required. Kahlenberg's Chemistry.

This course is given in two sections:

Section I, first semester. Mr. Monroe.

Section II, second semester. Mr. Monroe. 4 hours.

Chemistry 2b. General Chemistry: Laboratory and lectures. Prerequisite, Chemistry 1. Deposit required. Kahlenberg's Chemistry. Mr. Monroe. 4 hours.

Chemistry 3a. General Chemistry: Laboratory and lectures with recitations. Prerequisite, one entrance credit in chemistry. Deposit required. Three lectures, two laboratory periods of three hours each. Associate Professor Williams. 4 hours.

Chemistry 5. Quantitative Analysis: Volumetric and gravimetric estimations. Lectures and laboratory. Prequisite, Chemistry 4. Deposit required. Mr. Monroe. 4 hours.

Chemistry 7b. Analytical Chemistry: Analysis of unknowns. Laboratory and lectures. Open only to students in engineering. Prerequisite, Chemistry 1 or 3. Deposit required. Prescott and Johnson's Qualitative Chemical Analysis. Associate Professor Williams. 4 hours.

Chemistry 5Ib. Electro-Chemistry: This course takes up the elements of physical chemistry. Theory of electrolytic dissociation

migration of ions, conductivity of solutions, electromotive force, electrolysis, and some of the applications of electro-chemistry. Prerequisite, Chemistry 4, Physics 2, and Mathematics 17. Deposit required. Lectures and recitations. Associate Professor Williams. 4 hours.

Chemistry 52a. Chemical Technology: Lectures and recitations upon the processes employed in industrial chemistry. Prerequisite, Chemistry 4, 5, 121. Thorpe's Industrial Chemistry. Associate Professor Williams. 2 hours.

Chemistry 102b. Quantitative Analysis: Continuation of Chemistry 5. Deposit required. Mr. Monroe. 4 hours.

Chemistry 103a. Inorganic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4. Deposit required. Associate Professor Williams. 2 hours.

Chemistry 104a. Assaying: This course deals with the estimation of iron, lead, copper, silver, zinc, etc., by the wet way, and of gold and silver by the use of fluxes and other reagents. Prerequisite, Chemistry 5. Deposit required. Mr. Porter. 4 hours.

Chemistry 106b. Iron, Steel, and Coal Analysis: A study of iron, coal, and steel used in commerce and for domestic purposes. Prerequisite, Chemistry 5. Deposit required. Mr. Porter. 5 hours.

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisite, Chemistry 4. Perkin and Kipping's Organic Chemistry. Deposit required. Mr. Porter. 5 hours.

Chemistry 122b. Organic Analysis: Analysis of alkaloids and organic acids. Examination of fat and oils. Prerequisite, Chemistry 121. Deposit required. Prescott's Organic Analysis. Mr. Porter. 4 hours.

Chemistry 123b. Organic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4 and 121, German 2. Deposit required. Mr. Porter. 2 hours.

Chemistry 151a. Elementary Physical Chemistry: Lectures and recitations. This course deals with such topics as the gas laws, kinetic theory and Van der Waal's equation, phase rule, theory of electrolytic dissociation, etc. This course should be taken with or followed by Chemistry 142. Prerequisite, Chemistry 4, 5, and one year of college physics. Walker's Introduction to Physical Chemistry. Associate Professor Williams. 4 hours.

Chemistry 152b. Elementary Physico-Chemical Measurements: A laboratory course that must be taken with or after Chemistry 151. Molecular weight determinations by vapor density, freezing and boiling point methods, study of solutions, solubility, conductivity, transport numbers, etc. Deposit required. Associate Professor Williams. 4 hours.

CIVIL ENGINEERING

Professor Tucker and Mr. Weaver

Civil Engineering 1a. Surveying: Theory and use of the ordinary instruments of surveying such as the tape, compass, transit, and level. The common operations of surveying and of calculating and plotting surveys are taught. Prerequisite, Mathematics 6. Professor Tucker. 4 hours.

Civil Engineering 2b. Advanced Surveying: Some attention is devoted to triangulation, topography and hydrography, astronomy, and geodesy. The theory and use of the plane table, sextant, barometer, slide rule, and instruments of lesser importance are studied. The class will make a topographic survey of a piece of land, take topographic notes over it and produce a finished map of the section. Prerequisite, Civil Engineering 1. Professor Tucker. 4 hours.

Civil Engineering 3b. Roads and Pavements: The principles involved in the location and construction of highways, streets, and roads, are studied, and numerous numerical problems solved illustrating them. Professor Tucker. 4 hours.

Civil Engineering 51a and 52b. Railroad Surveying: A study of the best practice in railroad field work, including the mathematics of simple and compound curves and of earthwork computation. Some field practice in curves; the projection of a line on a map and estimates together with approximate design of structures. Prerequisite, Civil Engineering 2. Professor Tucker. Each. 4 hours

Civil Engineering 53a. Sewerage: Design and construction of sewerage systems both separate and combined, determination of size and capacity and modern methods of sewage disposal. Prerequisite, Civil Engineering 2. Mr. Weaver. 3 hours.

Civil Engineering 54b. Foundations: Foundations on land and in water, cribwork, cofferdams, caissons, piles, and pile driving; stone, brick, concrete, pneumatic processes, etc. Mr. Weaver. 2 hours.

Civil Engineering 55a. Structural Engineering: The calculation of stresses in steel roofs, bridges, and buildings. Studies are made of systems of loading and the solution of trusses by graphics. The principles taught in Mechanics 52 are brought into use in the design of members. Prerequisite, Mechanics 52. Mr. Weaver. 3 hours.

Civil Engineering 56a and 57b. Railroad Engineering: The economic theory of railroad location is touched upon, but chief emphasis is laid upon economics of track construction and maintenance, operating matters, and the fundamentals of terminal design as affecting the economic welfare and progress of the nation. Prerequi-

site, Civil Engineering 51 and 52. Professor Tucker and Mr. Weaver. Each 2 hours.

Civil Engineering 58b. Masonry Structures: Including building stone and quarrying and the design and construction of arches, dams, retaining walls, piers and buildings of stone, brick and concrete masonry, with special attention to reinforced concrete. Prerequisite, Mechanics 52. Mr. Weaver. 4 hours.

Civil Engineering 59a. Water Supplies: A study of the quantity, quality and source of potable water supplies with the necessary structures for collecting the same. A brief study of the operation of distribution systems, with considerable attention to modern methods of purifying and improving water for domestic and commercial uses. Mr. Weaver. 3 hours.

Civil Engineering 60b. Structural Design: The actual detailing of simple metal structures. Prerequisite, Civil Enigineering 55. Mr. Weaver. 2 hours

ECONOMICS

Professor Dowd, Assistant Professor Adams

Economics 8a. Business Administration: A study of legal forms, credit instruments, funding operations, accounting, and executive duties. Assistant Professor Adams. 2 hours.

ELECTRICAL ENGINEERING

Professor Bozell, Assistant Professor Morrow, Mr. Molinard, Mr. Renshaw

Electrical Engineering 51a. Direct Current Machinery: For civil, geological, and mechanical engineering students. Electricity magnetism; theory of direct current machinery. Lectures and recitations. Prerequisite, Physics 2 or 52. Assistant Professor Morrow. 3 hours.

Electrical Engineering 52a. Electrical Engineering Laboratory: For civil, geological, and mechanical engineering students. Experimental work with direct current machinery and the instruments used therewith. Prerequisite, enrollment in Electrical Engineering 51. Assistant Professor Morrow and Mr. Renshaw. 1 hour.

Electrical Engineering 53b. Alternating Current Machinery: For civil, geological, and mechanical engineering students. Theory of alternating currents, alternating current machinery. Lectures and recitations. Prerequisite, Electrical Engineering 51. Assistant Professor Morrow. 3 hours.

Electrical Engineering 54b. Electrical Engineering Laboratory: For civil, geological, and mechanical engineering students. Ex-

perimental work with alternating current circuits, alternating current machinery and the instruments used therewith. Prerequisite, enrollment in Electrical Engineering 53. Assistant Professor Morrow and Mr. Renshaw. 1 hour.

Electrical Engineering 55a. Dynamo-Electric Machinery: For chemical engineering students. Principles of electrical measuring instruments; and of direct and alternating current machinery. Small industrial installations. Lectures and recitations. Prerequisite, Physics 52. Assistant Professor Morrow. 2 hours.

Electrical Engineering 56b. Electrical Engineering Laboratory: For chemical engineering students. Experimental work with direct and alternating current machinery. Prerequisite, enrollment in Electrical Engineering 55. Assistant Professor Morrow and Mr. Renshaw. 2 hours.

Electrical Engineering 61a. Direct Current Machinery: Advanced work in electricity and magnetism. The theory of direct current machinery, circuits, and instruments. Lectures and recitations. Prerequisite, enrollment in Physics 104. Assistant Professor Morrow. 4 hours.

Electrical Engineering 62a. Electrical Engineering Laboratory: Experimental work with direct current machinery and measuring instruments. Prerequisite enrollment in Electrical Engineering 61. Assistant Professor Morrow and Mr. Renshaw. 1 hour.

Electrical Engineering 63b. Electrical Engineering Laboratory: Continuation of Electrical Engineering 62. Commercial tests and operation. Prerequisite Electrical Engineering 62. Assistant Professor Morrow and Mr. Renshaw. 1 hour.

Electrical Engineering 64b. Theory of Alternating Currents: A study, mainly mathematical, of alternating currents, alternating current circuits and phenomena. The fundamental theory of alternating current machinery. Prerequisite, Physics 104, and Mathematics 17. Professor Bozell. 4 hours.

Electrical Engineering 65b. Electrical Laboratory: Advanced erical meajetcsurements; experimental work with measuring instruments, apparatus, circuits and conditions pertaining specially to alternating currents. Prerequisite, physics 105, and enrollment in Electrical Engineering 64. Assistant Professor Morrow and Mr. Renshaw. 1 hour.

Electrical Engineering 71a. Alternating Current Machinery: The theory and study of alternating current machinery. Lectures and recitations. Prerequisite, Electrical Engineering 65. Professor Bozell. 4 hours.

Electrical Engineering 72a. Electrical Engineering Laboratory: Experimental work with alternating current machinery; meth-

ods of testing and operation. Work in the operation of combinations of direct and alternating current machinery. Prerequisite, enrollment in Electrical Engineering 71. Assistant Professor Morrow and Mr. Renshaw. 2 hours.

Electrical Engineering 73a. Telegraph and Telephone Engineering: Principles underlying telephone apparatus; operation of apparatus and systems. Experimental work with apparatus and equipment. Theory of signaling in line and wireless telegraphy. Lectures, recitations, and laboratory work. Prerequisite, Electrical Engineering 65. Professor Bozell. 2 hours.

Electrical Engineering 74a. Electrical Machine Design: Theory and principles underlying the design of electrical machinery in all details—electrical and mechanical. At least one design will be completed, including all drawings, by each student. Lectures, recitations and design periods. Prerequisite, Mechanics 53, and enrollment in Electrical Engineering 71. Professor Bozell. 2 hours.

Electrical Engineering 75b. Advanced Electrical Machinery: A continuation of courses 61 and 71. Advanced study of types of alternating and direct current machinery. Selection of machinery for specific purposes. Prerequisite Electrical Engineering 72. Professor Bozell. 2 hours.

Electrical Engineering 76b. Electrical Transmission and Distribution of Power: The principles involved and the methods used in the transmission and distribution of electric power. Lectures, recitations, and assigned readings; laboratory work as required. Prerequisite, Electrical Engineering 72. Assistant Professor Morrow. 2 hours.

Electrical Engineering 77b. Electric Railway Engineering: The engineering principles and practice in electric railway work. The preliminary calculations, speed-time curves and schedules, power house and sub-stations, rolling stock, transmission, equipment. Lectures, recitations, problems, and assigned readings. Prerequisite, Electrical Engineering 72. Professor Bozell. 2 hours.

Electrical Engineering 78b. Illuminating Engineering: A study of the different illuminants, and methods of illumination. Color effects, efficiency, photometry. Machinery peculiar to illumination. Lectures, recitations and assigned readings. Laboratory work as required. Prerequisite, Mathematics 6 and Physics 2 or 52. Professor Bozell. 2 hours.

Electrical Engineering 79b. Electrical Power Plants: The economic design and operation of electric power plants. Selection and installation of machinery. Plans and estimates. Accounting, management. Lectures, recitations, and periods for design work. Pre-

requisite, Electrical Engineering 72 and Mechanical Engineering 60. Professor Bozell and Mr. Molinard. 2 hours.

Electrical Engineering 80b. Professional Thesis: Preliminary reading during the first semester. For the second semester, the student is expected to devote a large part of his free time to the personal investigation, experimental or other, of his subject, and to write an acceptable thesis upon his results and conclusions. Eight hours a week, by appointment. Professor Bozell or other instructors depending upon the nature of the subject chosen.

Electrical Engineering 81b. Inspection Trip: A more or less extended trip—the nature and points visited varying from year to year—for the purpose of inspecting installations, operating and under construction, and manufacturing plants of special interest to electrical engineers. The students will be accompanied by Professor Bozell.

ENGINEERING CONTRACTS

Associate Professor Tucker

Engineering Contracts 51b. Contracts and Engineering: A study of the principles of business law with special reference to engineering and engineering contracts.

ENGLISH

Professor Brewer, Assistant Professor Brooke

English 1a. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence; daily and fortnightly themes. Required of all candidates for the bachelor's degree. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it. 4 hours.

The course is given in seven sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, and Mr. Wells. 4 hours.

English 2b. First Principles of English Composition: Lectures on words, with a study of selected examples of nineteenth century prose and poetry; daily and fortnightly themes at intervals, with a special study of the works of one writer. English 2 is a continuation of and presupposes English 1. Required of all candidates for the bachelor's degree. 4 hours.

The course is given in seven sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, and Mr. Wells. 4 hours.

English 9a. Advanced Composition: This course is intended for engineers and students in science of junior and senior rank. Particular attention will be given to the gathering and preparation of ma

terial, and to the writing and criticism of scientific papers. Assistant Professor Brooke. 2 hours.

FRESHMAN CONFERENCE

Freshman Conference. A professor from each one of the schools in the College of Engineering will present to the freshmen during the year the scope of work included in that school, the field for which that work prepares him, the kind of work that he will have to do in that field when he graduates, and the opportunities to one following that line of engineering work as a profession. This conference is required of all freshman engineers and meets once a month, according to the schedule. These meetings will be supplemented by assigned readings nnd technical reports.

GEOLOGY

Professor Taylor, Professor Perrine

Geology 1. Elementary Geology: A general introductory course. A study of the origin of the earth, its past and probable future; the chief rocks and minerals and the manner of their formation, destructive and reconstructive processes; crustal movements and mountain structures; vulcanism and metamorphism; a chronological study of the history of the earth, and of the development and evolution of life forms. A field excursion to the Arbuckle Mountains is included as part of the required work. Professor Perrine. 4 hours.

Geology 2b. Physiography: A study of the development of land forms and of the agents which produce them. Special consideration is given to the life history and work of streams, to glaciers, to the ocean, volcanoes, etc. The course includes a brief consideration of meteorology. A field trip to the Arbuckle Mountains is included as a part of the required work. Professor Taylor. 4 hours.

Geology 102a. Crystallography and Mineralogy: A study of the laws of crystallization, and the classification of crystals. The physical properties, chemical composition, and mode of occurrence of minerals. Prerequisite, Chemistry 1. Professor Taylor. 3 hours.

Geology 103b. Mineralogy: A continuation of Geology 102. Descriptive mineralogy and blowpipe analysis. Professor Taylor. 3 hours.

Geology 104b. Economic Geology: A study of ore deposits with respect to their origin, mode of occurrence, and value. Also a study of oil, gas, etc., with particular reference to their occurrence and development in Oklahoma. Prerequisite, Geology 1, 3, or 102, and general chemistry. Professor Taylor. 4 hours.

GERMAN

Professor House

German 9a. Scientific German: The aim of this course is to afford students of the sciences an acquaintance with technical scientific nomenclature and style. Translation of German scientific texts and articles in current technical periodicals will be required of students. Prerequisite, German 1 and 2. Wait's German Scientific Reader. Professor House. 2 hours.

German 10b. Scientific German: A continuation of German 9. Translation of German scientific texts (Goeschen Sammlung) and articles in current technical periodicals. Brief lectures in German on various topics selected from the different sciences will be from time to time required to be given in the class by the student, the subject matter to be subsequently discussed in class. Professor House. 2 hours.

MATHEMATICS

Professor Reaves, Associate Professor Kent

Mathematics 5a. College Algebra: Embracing the subjects of imaginaries, variables and limits, permutations and combinations, binomial theorem, series, undetermined coefficients, logarithms, determinants, and theory of equations. This course presupposes a minimum of one and one-half years in algebra. Three sections, Professor Reaves, Associate Professor Kent. 4 hours.

Mathematics 6a. Trigonometry: This is a brief course intended primarily for Engineering students, but open also to others. Associate Professor Kent. 2 hours.

Mathematics 14. Analytic Geometry: Equations and their loci; transformation of coordinates; the straight line, circle, and other conic sections; general equation of the second degree; introduction to solid geometry. Prerequisite, trigonometry. One section, first semester. Associate Professor Kent. One section, second semester. Professor Reaves. 4 hours.

Mathematics 17. Calculus: An elementary course in differential and integral calculus. Prerequisite, Mathematics 14. One section, first semester. Professor Reaves. One section, second semester. Associate Professor Kent. 4 hours.

Mathematics 118. Advanced Calculus: A continuation of Mathematics 17 with numerous applications to practical problems. Associate Professor Kent. 4 hours.

Mathematics 122b. Differential Equations: Ordinary and partial differential equations with applications to geometry, physics, and mechanics. Prerequisite, Mathematics 17. Associate Professor Kent. 3 hours.

MECHANICS

Professor Dwight, Professor Felgar

Mechanics 51a. Mechanics: A mathematical study of the laws of statics and kinematics; friction; the fundamental dynamical principles; kinetics of particles and of rigid bodies; some discussion of the dynamics of rotation and the gyroscope. Prerequisite, Mathematics 17 and Physics 1 or 51. Professor Dwight. 4 hours.

Mechanics 52a. Applied Mechanics: The application of mechanics to the solution of engineering problems and especially the use of graphics as a means of attack. Prerequisite, enrollment in Mechanics 51a. Professor Dwight. 2 hours.

Mechanics 53b. Mechanics of Materials: A study of the strength of materials, stresses and strains in beams, columns, and shafts; elasticity, flexure, safe loading, designing. Prerequisite, Mechanics 51. Professor Dwight. 4 hours.

Mechanics 54b. Resistance of Materials: Experiments and investigations in the materials laboratory to verify the experimental laws; problems in engineering practice; the quality and requirements for structural materials. Prerequisite, enrollment in Mechanics 53b. Professor Felgar and Professor Dwight. 2 hours.

Mechanics 55b. Theoretical Hydraulics: Principles of hydrostatic and hydro-dynamic pressure; laws that govern the flow of water through orifices, weirs, pipes, and canals; determination of experimental coefficients and their use. Recitations and laboratory. Prerequisite, Physics 1 or 51 and Mathematics 17. Professor Dwight. 3 hours.

MECHANICAL DRAWING

Professor Dwight, Professor Felgar

Mechanical Drawing 1a. Technical Drawing: Free-hand lettering, standard forms for titles and choice of alphabets. Elementary mechanical drawing through the last ten weeks. Graphic solution of conic sections and other plane curves. Professor Dwight. 2 hours.

Mechanical Drawing 2b. Simple isometric and orthographic projections, shade lines and shadows, working drawings, tinting, and conventional representation. Continued practice in lettering. Prerequisite, Mechanical Drawing 1. Professor Dwight. 2 hours.

Mechanical Drawing 3a. Descriptive Geometry: Orthographic projections in the solution of problems of the right line and plane; of curved and warped surfaces, intersections, and developments. Principles of shades, shadows, and linear perspective; isometric pro-

jections. Recitations and drawing. Prerequisite, Mechanical Drawing 2. Professor Felgar. 3 hours.

Mechanical Drawing 4a. Machine Drawing: Drawing of machine details from sketches and notes; sketching of machine parts and preparation of working drawings; tracing and blue printing; practical drafting-room methods. Preparation of a complete set of drawings for some simple machine. Prerequisite, Mechanical Drawing 2. Professor Dwight. 2 hours.

Mechanical Drawing 5b. Machine Design: Theory and design of gears, screws, cams, belts, and simple machines. Recitations and drawing. Prerequisite, Mechanical Drawing 2. Professor Dwight. 2 hours.

Mechanical Drawing 51a. Kinematic Drawing: Velocity diagrams, valve and indicator diagrams, and preliminary work for valve and steam engine design. Professor Dwight. 2 hours.

Mechanical Drawing 52b. Map Drawing: The preparation of base maps; lettering and printing. The preparation of geological maps in field and office. Open only to those who take their major work in geology. Professor Dwight. 2 hours.

MECHANICAL ENGINEERING

Professor Felgar, Assistant Professor Aitkenhead

Mechanical Engineering 1a. Elements of the Steam Engine and Boiler: A brief study of the principles of steam engines boilers, and steam turbines. Mr. Aitkenhead. 4 hours.

Mechanical Engineering 2b. Valve Gears and Indicators: A study of the valve motions of the steam engine and of indicator cards. Professor Felgar. 4 hours.

Mechanical Engineering 3a. Mechanical Laboratory: Study and calibration of instruments and testing of simple machines. Fee, $2.00. Professor Felgar. 1 hour.

Mechanical Engineering 4b. Thermodynamics: Study of the relations of heat phenomena. Theory of gases and vapors. Theory of heat engines and discussion of heat efficiencies. Prerequisite, Physics 1, 2, and 108, and Mathematics 17. Professor Felgar. 4 hours.

Mechanical Engineering 51a. Machine Design: Proportioning and designing of machine parts for durability and strength. Prerequisite, Mechanics 51. Professor Felgar. 2 hours.

Mechanical Engineering 52b. Steam Engine Design: Complete design of a steam engine with detailed working drawing of all its parts. Professor Felgar. 2 hours.

Mechanical Engineering 53a. Steam Power Plant Engineer-

ing: A study of fuels, types of boilers, and accessories in detail. Prerequisite, Mechanical Engineering 1. Professor Felgar. 2 hours.

Mechanical Engineering 54a. Steam Power Plant Engineering: A continuation of Mechanical Engineering 53. A study of the steam engine, steam turbine, steam pumps and accessories, with reference to design, cost, and installation of a power plant. Prerequisite, Mechanical Engineering 53. Professor Felgar. 4 hours.

Mechanical Engineering 55b. Steam Power Plant Engineering: A continuation of Mechanical Engineering 54 with special reference to power plant accessories, cost of power, tests and types of specifications. Prerequisite, Mechanical Engineering 54. Professor Felgar. 2 hours.

Mechanical Engineering 56a. Power Plant Design: Selection of the plan and elevation of power plant and machinery, of piping systems. and of coal and ash handling, systems. Professor Felgar. 2 hours.

Mechanical Engineering 57b. Power Plant Design Continued: Professor Felgar. 2 hours.

Mechanical Engineering 58a. Heat Engines: Thermodynamics applied to engines, both vapor and internal combustion. Professor Felgar. 4 hours.

Mechanical Engineering 59a. Advanced Steam Engineering: Study of heat losses in the steam engine with methods of reducing the same; corresponding superheating, jacketing, design of reciprocating steam engine; steam jet, design of a steam turbine. This course is designed to meet the demand of the electrical engineer. Professor Felgar. 2 hours.

Mechanical Engineering 60a. Mechanical Engineering Laboratory: For electrical engineers. Flue gas analysis, gas calorimetry, study of lubricating oils, efficiency test of steam and gas engines and a complete engine and boiler test. Porfessor Felgar. 1 hour.

Mechanical Engineering 61a. Mechanical Engineering Laboratory: Fuel and flue gas analysis, calorimetry, efficiency tests of steam and gas engines. Professor Felgar. 1 hour.

Mechanical Engineering 62b. Mechanical Engineering Laboratory: A study of lubricating oils and lubrication, efficiency tests of steam and gas engines with special reference to thermal efficiency including a complete boiler and engine test. Professor Felgar. 1 hour.

Mechanical Engineering 63b. Refrigeration: This course includes the study of prime movers, for refrigerating machinery, refrigeration, and refrigeratiory machinery, using texts and catalogues. Professor Felgar. 3 hours.

Mechanical Engineering 64b. Heating and Ventilation: Na-

ture and properties of heat, principles of ventilation, heat given off by radiating surfaces, steam heating boilers, various systems of piping, mechanical systems of heating and ventilation. Professor Felgar. 4 hours.

Mechanical Engineering 65b. The Gas Engine: Power, efficiency and economy of gas engine. The use of gasoline, petroleum, distillate, and producer gas. The producer gas plant. Prerequisite, Mechanical Engineering 63. Assistant Professor Aitkenhead. 2 hours.

Mechanical Engineering 66b. Turbines: A study of the theory and design of the different types of steam turbines. 2 hours.

Mechanical Engineering 67b. Thesis: A complete investigation of some subject relative to mechanical engineering, or the design of some special apparatus or machine.

MINING GEOLOGY

Professor Taylor and Professor.....

Mining Geology 51a. Elements of Mining Engineering: A course intended to introduce the student to the chief features of the profession of mining engineering. 3 hours.

Mining Geology 52a. Mining Engineering: This course deals with the mechanism and tools of mining, methods of prospecting and the opening up of deposits, including the sinking of shafts and slopes, the driving of levels, and the working of stopes or rooms. 4 hours.

Mining Geology 53b. Mining Engineering (Continued): In this course are considered hydraulicking, tramming, hoisting of ore, coal, and men, pumping, ventilating, lighting, explosions, fires, underground survey, and manipulation of men. 2 hours.

Mining Geology 54a. Ore Dressing: This course treats of the various methods of crushing and concentrating ores. 2 hours.

Mining Geology 55a. Metallurgical Laboratory: A course in which the student makes a practical study of the working of machines, furnaces, etc., used in the processes of ore preparation and metallurgy. The course further treats of roasting, smelting, amalgamating, leaching, and electrolytic treatment of copper, lead, silver, and gold ores. 4 hours.

Mining Geology 56a. Mining Operations: This course is in part a continuation of Mining Geology 55, but includes also a study of the various motors and sources of power in mining work. 2 hours.

Mining Geology 57b. Metallurgy of Ferrous and Non-Ferrous Mineral: This course deals with the processes for extracting

the various metals from their ores and treats of fuels and refractories, etc. Lectures. 4 hours.

PHYSICS

Professor Haseman

Physics 51a. Mechanics, Sound, Heat: Lectures, recitations, laboratory, and assigned reading. Four class periods and one laboratory period. Prerequisite, trigonometry. 5 hours.

Physics 52b. Electricity, Magnetism, Light: Lectures, recitations, laboratory, and assigned reading. Four class periods and one laboratory period. Prerequisite: Trigonometry. 5 hours.

Physics 104a. Electricity and Magnetism: Lectures and recitations. The general theory of potential, lines and tubes of force, fields of force, and influence of media as applied to electrostatics and magnetism. A study of the electric current with the theory of electromagnetism and electromagnetic apparatus. Prerequisite, Physics 2, or 52 and uccompanied or prceded by calculus. 4 hours.

Physics 105a. Electricity and Magnetism: A Laboratory course including experiments on accurate measurement of current, ersistance, electromotive force, capacity, induction, hysteresis loss, calibration of electrical instruments, etc. Must be accompanied or preceded by Physics 104. 1 hour.

PHYSICAL TRAINING

Director Darling

Physical Training 1a. Marching, calisthenics, Indian clubs, and dumb-bells. Required of freshmen. Dr. Darling. 1 hour.

Physical Training 2b. A continuation of Course 1 with the addition of elementary work on heavy apparatus. Required of freshmen. Dr. Darling. 1 hour.

SHOP WORK

Assistant Professor Aitkenhead

Shop 1a. Woodworking: The care and use of tools and woodworking machinery; exercises in sawing, planing, mortising, framing, dove-tailing, turning, and pattern making. 1 hour.

Shop 2b. Forge and Foundry Work: Forge work consists of care of forge, use of tools, forging, welding, tempering, tool making; foundry work, moulding, casting, cupola practice, brass casting. 2 hours.

Shop 3a. Machine Shop: Chipping, filing, use of lathe, drill press, and emery wheels. 1 hour.

Shop 4b. Machine Shop: A continuation of Shop 3, using the shaper, planer, grinding machine, and milling machine, and constructing special exercises. Deposit required. 2 hours.

THE SUMMER SCHOOL

SUMMER SESSION

The Summer Session begins regularly on the Monday following Commencement Exercises in June and continues eight weeks.

ADMISSION

For entrance to the Summer Session no formal examinations will be required, but admission will be granted upon application when it shall appear to the faculty that the applicant is of sufficient maturity and training to profit by the exercises of the session.

CREDIT

Students who desire to secure college credit for work done at the Summer Session must satisfy the regular requirements for admission.

Students enrolling in the university for the first time who desire to receive college credit for courses pursued, should bring a certified copy of their preparatory and other credits. This will facilitate enrollment and classification.

Students deficient in entrance credits may make up their deficiencies by taking certain courses offered in the Summer Session which may be counted to fulfill the requirements for admission.

In general, credit will be given at the rate of one college hour for sixteen exercises. A course of six lectures weekly during the eight weeks will have a credit value of three hours in college. Such a course will be reckoned at one-half unit for students making up deficiencies in entrance credit. A smaller or larger number of periods per week, will receive credit in due proportion to the time spent.

The normal amount of credit obtainable during the session, by a student devoting his whole time to courses strictly of university grade, is eight hours.

A bachelor's degree represents 124 or more hours of credit, distributed according to the requirements of the College of Arts and Sciences. A master's degree represents 30 hours or more credit after the granting of the bachelor's degree.

GENERAL INFORMATION

The new University Hall in which most of the classes for the Summer Session will be conducted, is a handsome building of the Collegiate Gothic style of architecture. The laboratories and the library of the university and the various geological, zoological and other scientific collections are available for the use of students in the Summer School.

PHYSICAL TRAINING AND ATHLETICS

No formal work will be given in physical training during the Summer Session. The tennis courts, the athletic field including the track and baseball grounds, and the baths of the gymnasium, will be open for the use of the summer students.

FEES AND EXPENSES

Tuition is free in all departments of the university. Students taking private lessons in the School of Fine Arts must pay the fees described below. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted to students neglecting to pay the actual cost of such loss or damage nor will honorable dismissal be granted such students.

In all laboratory courses students must pay the actual cost of material used. In some courses a fixed charge based upon the estimated cost of material is made and must be paid before beginning the work. In most laboratory courses a laboratory coupon book costing three dollars must be purchased by the student for each course and deposited with the instructor. From this book the cost of material issued to the student will be taken at the time of issue. Additional books must be purchased from time to time as may be necessary. Any unused portion of such laboratory coupon books will be refunded in cash at the end of the Summer Session.

Board and Room

Board, including furnished room, can be had for from $4.00 to $6.00 a week. The average cost of living is as low in Norman as in any other town of its size in the state. The general advance in prices, however, so noticeable during the past several years, has increased the cost of living here as elsewhere. Applications for assistance in securing board and rooms should be addressed to the Committee on Accommodations.

ORGANIZATION

The work of the Summer Session has been organized to fit the needs of five classes of students.

A. Candidates for the degree of Bachelor of Arts in the College of Arts and Sciences.

B. Candidates for the degree of Master of Arts in the Graduate School.

C. Teachers whether candidates for one of these degrees or not.

D. City and County Superintendents and Normal School Teachers, pursuing the special short course.

E. Special students in music and painting.

A. CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

Candidates for the degree of Bachelor of Arts should confer with the dean of the College of Arts and Sciences with reference to the choice of subjects. For such students there are provided:

a. Required courses
b. Courses that fill the group requirements
c. Courses counting as major work for the bachelor's degree
d. Free Electives; in addition to the above courses

B. CANDIDATES FOR THE DEGREE OF MASTER OF ARTS

Candidates for the degree of Master of Arts should confer with the dean of the Graduate School with reference to the choice of subjects.

Candidates for a master's degree must complete thirty hours of work in one major subject and one or two minor subjects. To each minor subject shall be devoted approximately one half of the work devoted to the major subject. The major and minor may fall within the same department. If two minors are selected one must be chosen from another department.

Each candidate for a master's degree must prepare a thesis. The subject of the thesis, approved by the student's major professor, must be chosen before the close of the first summer session the candidate is in attendance. The completed thesis must be in the hands of the student's major professor two weeks before the close of the summer session in which the student applies for his final examination.

Eight hours of credit may be obtained in one summer session, and with special permission of the dean of the Graduate School, nine hours may be so obtained. In three summers, therefore, the credit earned will be twenty-four to twenty-seven hours. The remaining hours of credit may be obtained by work IN ABSENTIA under the following conditions:

1. Graduates of this university who at the time of graduation enroll in the Graduate School with the intention of completing the work for a master's degree wholly or partly by attendance upon summer sessions, will be allowed, with the approval of the dean and the major professor, to take work IN ABSENTIA during the year preceding a summer session in residence.

2. Candidates for a master's degree not graduates of this university will be allowed, with the approval of the dean and the major pro-

fessor, to take IN ABSENTIA work during the year following a summer session in residence.

3. Credit for work IN ABSENTIA will be granted only in connection with work taken later in residence. All absentia work must therefore be completed prior to enrollment for the final summer session in residence.

4. The maximum amount of credit obtained by IN ABSENTIA work is six hours.

The work of the summer session has been planned in such a way that candidates for the master's degree can secure different graduate courses in three successive summers and may thus, with IN ABSENTIA courses, complete the work required for the degree in three summers.

The following suggestive outline will show the plan:

First summer	Major subject, 5 hours	First minor subject, 3 hours
IN ABSENTIA		First minor subject, 3 hours
Second summer	Major subject, 5 hours	Second minor subject, 3 hours
IN ABSENTIA	Major subject, 3 hours	
Third summer	Major subject, 3 hours	Second minor subject, 5 hours

Further details in regard to securing a master's degree are discussed under the heading below, Courses for Teachers.

C. COURSES FOR TEACHERS

The Summer School of the University of Oklahoma desires to present material of special value to teachers along the following lines:

First, for teachers who have little or no university credit but who expect ultimately to become candidates for a degree. Such teachers should select subjects immediately applicable to their work of teaching, but preferably from the prescribed courses and the group electives specified above under the heading Candidates for the Degree of Bachelor of Arts.

Second, for graduates of the Oklahoma state normal schools or equivalent normal schools or those who have at least sixty hours of college credit. Such candidates should enroll in the School of Teaching. Arrangements have been made whereby graduates of the regular course of the Oklahoma state normal schools who have had two years of normal training above the admission requirements to the university, are granted 60 hours of credit, thus enabling them to complete the university course and earn a degree in two years. These teachers likewise should select subjects immediately applicable to the work of teaching. They should, however, confer with the Dean of the College of Arts and Sciences with reference to completing the prescribed courses and the group requirements, and in addition to the courses thus chosen may

make selections from the major subjects specified above under the heading Candidates for the Degree of Bachelor of Arts.

Third, for teachers who are not seeking college credit but who wish merely to select courses of special interest in teaching.

Fourth, for teachers holding a bachelor's degree who by attendance during three summer sessions and by completing two courses in absentia may obtain the master's degree. The general plan of work required for a master's degree is outlined above under the heading Candidates for a Master's Degree.

The master's degree in education may be obtained by selecting education as the major and psychology as the minor subject and completing in these two departments thirty hours of work selected from among courses counting for credit for a master's degree. In general, however, it is recommended that an additional minor be selected from some other department offering graduate courses in subjects taught in high schools, such as physics, chemistry, zoology, botany, history, German, French, English, Latin.

Courses in special methods of teaching various high schools subjects may be counted as graduate work in the Department of Education.

Graduate courses in education and psychology will be offered in such a way that progressive work may be followed in three successive summers.

Candidates desiring a larger amount of graduate work in other subjects may make education or psychology a minor as indicated in the general plan for a master's degree given under the heading Candidates for a Master's Degree. Teachers may thus secure graduate work in the subject or subjects that they regularly teach and combine these with general courses in education and specific instruction in methods of teaching.

Students enrolled in the School of Teaching who complete the work for a bachelor's or a master's degree including the prescribed courses in education outlined below under the heading School of Teaching, will be granted in addition to the degree, a life teacher's certificate to teach in the public schools of Oklahoma.

D. CITY AND COUNTY SUPERINTENDENTS AND NORMAL SCHOOL TEACHERS

Special short courses of value to county and city superintendents are offered in the summer session. Annoucement of these courses will be made in the summer session bulletin.

E. SPECIAL STUDENTS IN MUSIC AND PAINTING

Private lessons in piano, in voice, in violin, and in painting will be

given by regular members of the faculty of the School of Fine Arts, as described in the summer session bulletin. For this instruction the regular fees are charged.

For complete description of courses offered in the summer session, address,

The Director of the Summer Session, Norman, Oklahoma.

ROLL OF STUDENTS

DEGREES CONFERRED

Twentieth Annual Commencement, June 13, 1912

MASTER OF ARTS

Wilbur Ellsworth Brown
George Franklin Buttram
Mittie Josephine Cotton
John Duchow
George Brinton Mitchell
Morris Thurman Myers
Earle Sellers Porter

BACHELOR OF ARTS

Eugene Lamar Ambrister
Hubert Ambrister
Robert Earl Baker
Lucile Kathryn Bell
Gertrude Laura Buxton
Alta Beulah Caldwell
Frank Harrison Clifford
Eva May Clifton
James Orlin Colburn
James Russell Crabtree
Edith Bertha Denison
Joseph Vital DePorte
Frances May Dorchester
Mary Eloise Eagleton
Myrtle Faye Ellenberger
Otto Earl Foster
Robert Ernest Garrett
Emmett Downey Graham
Charles Walter Hamilton
Harry Lee Haun
Ray Homer Haun
John Martin Herald
Alice Himes
Helen Margaret Howe
Homer Lee Johnson
Frank James Kidd
Herschel Venus Lewis
Floyd William Maxwell
Meredith Loren McCance
Elva Ellen McFerron
Evelina Messenger
Nannie Lee Miller
Edwin Dillin Minteer
Victor Elvert Monnett
Jerry Bowers Newby
Bertha Crawford Oliver
Charles Lawrence Orr
Everett Otis Rhodes
Lora Frances Rinehart
Louis Roark
Mabel Arvilla Thacker
Tula May Thomas
John Cleveland Thompson
Laurence Emory Trout
Beatrice Irene VonKeller
Ulys Webb
Collins Collier Williams

BACHELOR OF SCIENCE

Clarence Kenneth Jones
Earl Duwain McBride
Alvin Mann McMahan
Pleasant Addison Taylor

BACHELOR OF SCIENCE IN PHARMACY

Hubert Maurice Nicholson

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Schenk Henry Griffin
Harrison Worth Nighswonger

BACHELOR OF MUSIC IN PIANO

Clara Mary Jane Belknap
Lewis Spencer Salter
Lena Pearl Trout
Alma Mary Watkins

BACHELOR OF MUSIC IN VOICE

Elizabeth Jane King
Eva Lee
George F. William Schmidt

BACHELOR OF LAWS

Charles Mansfield Anderson
Charles Robert Bellatti
Frank Forrest Betzer
Harry Herman Diamond
Perlay Dair Erwin
Charles Holland Herndon
Thurman Scott Hurst
Albert Edward Jenkins
Richard Emerson Jenness
Harry Clark Kirkendall
Louis Albert Ledbetter
Frank Manning
Thomas Wallard Mayfield
Carl Edward Mohrbacher
Alfred Washington Page
William Nathaniel Randolph
Henry Grady Ross
Streeter S. Speakman
Paul Atlee Walker
Henderson Floyd Wheeler
Roy Lee Wilkinson

DOCTOR OF MEDICINE

Leslie George A Brownlee
Emmer Palmore Davis
Ora O. Dawson
Ben Hill Day
H. Webb Finlay
Samuel Ellsworth Gayman
Roy Keene Goddard
Charles Percie Murphy
Pauline Quillen
Walter Edgar Stewart

PHARMACEUTICAL CHEMIST

Harry Maphis Bennett
Howard Storme Browne
Jones Morgan Bush
Frank Garkson Hartson
Marvin Glenn Humphreys
Reuben G. Lewis
Thomas Jewell Lyle
Harry Hermine Lynch
Mary Georgia Manning
John Earnest Marrow
Henry Davis Mosier
William Berlin Mosier
Harvey Harrison Olmstead
Floyd Euliah Proffitt
Arthur Christopher Shultz
Charles Elias Taylor

GRADUATING EXERCISES—SUMMER SESSION 1912

MASTER OF ARTS

Zazel Sloniger
Earle Warren Radcliffe

BACHELOR OF ARTS

Clenton McClarty Allen
Ray Morton Balyeat
Lucy Elizabeth Barrow
Johnson Tallie Crawford
Merle Edelweiss Newby
Raymond Augustin Tolbert

ROLL OF STUDENTS

Explanation: Letters and figures after a name indicate which school or schools the student enrolled in, and the amount of credit earned. A—Arts and Sciences; E—Engineering; F—Fine Arts; G—Graduate; L—Law; M—Medicine; N—Training School for Nurses; P—Pharmacy; T—Teaching.

A small letter "u" after the name of the school indicates that the student is unclassified, that is, is doing special work or is deficient in entrance credits.

The figures after the name of the school indicate the number of hours credit earned in that school.

The "group" in the School of Fine Arts indicates classification in technical work, group I corresponding to freshman standing; group IV to senior, etc.

The letters and figures in parentheses indicate which semesters the student was enrolled; i. e., 1—first semester; 2—second semester, s—summer session; a—in absentia. The letter "n" indicates that the student enrolled for the first time in the university in the session immediately following the "n".

Third and fourth year medical students are marked "3rd" and "4th".

Abbott, Rolly L 1 [n 1]	Newkirk
Abernathy, Ewing Bilan E 68 [1, 2]	Lexington
Aitkenhead, William G 27 [s, 1, 2,]	Norman
Aitkenhead. William Charlton A u 5 [s]; F u g. I [2]	Norman
Akin, Vinnie F u 5 group II [n 1, 2]	South Houston, Texas
Alexander, Elmina A 39 [1]	Norman
Alexander, Emma Frances F 59 group IV [1, 2]	Norman
Alexander, Etta Dealva A 101 [s, 2]	Norman
Alexander, Inez Josephine F u [n 1]	Norman
Alexander, Lillian Alice F u 2 [n 1]	Norman
Alexander, Robert Emmet L u 28 [1, 2]	Alex
Allen, George Wallace L u 13 [n 1, 2]	Norman
Ambrister, Hubert L 38 [1, 2]	Norman
Amis, Edwin Ross E u 5 [n 1, 2]	Ramona
Amis, Margaret Ethel A 12 [n 1, 2]; F u [2]	Ramona
Amonette, Harry Allen L 38 [1, 2]	Pauls Valley

Anderson, Eva Marie A 85 [n 1, 2] Norman
Anderson, George A 4 [1]; L 7 [n 1, 2] Ardmore
Anderson, Gladys Mildred F 56 group IV [1, 2] Pryor
Andess, Grace Pahlman A 76 [1, a] Norman
Andrew, Ransel Eugene A 108 [1, 2] Oklahoma
Anglea, Hill L 13 [nl, 2] Edmond
Armstrong, Arthur Columbus A u 3 [ns] Dill
Armstrong, Dubert Long L 2 [1,2]; F u group I [s,1,2] Oklahoma
Armstrong, William Judson A u 82 [1]; L u [1] Boswell
Arnett, Clarence Lester E 89 [1, 2] Oklahoma
Asbury, Henry Thomas E 146 [1, 2] Norman
Asbury, Leon Bransford E u 96 [1, 2] Norman.
Asher, Hannah A u [n1] Los Angeles, Cal.
Aurin, Fritz A 83 [1, 2] Tecumseh
Avant, Doyle Rexford A u 17 [n1, 2] Bokchito
Axtell, Lee Reuben A u [n 2] Elizabeth, Ill.
Baggette, Julia Anna A 53 [1] Tahlequah
Bailey, Manley Elvin P u 55 [1, 2] Norman
Bailey, Ruth F u group II [n 2] Oklahoma
Baines, Roy Dixie A 17 [n 1, 2] Hennessey
Baker, Eda Mary A 11 [n 1, 2] Opalos, Kan.
Baker, Mattie May G 5 [s] Orlando
Baldwin, Jasper Phin A 103 [1, 2]; L 4 [1, 2] Davis
Ballard, DeAuburn E 131 [1, 2] Nowata
Ballew, Frances F u 1 [1] Norman
Balyeat, Ray Morton A 124 [s] Wellston
Barb, Kirk Bentley M 53 [1, 2] Norman
Barbour, Avis Caroline A 60 [1, 2]; F 26 group I [1] Prague
Barbour, Elzaida F u [2] Norman
Barbour, Frona May F u [n 1] Norman
Barbour, Myrtle Lee A u 8 [n s] Norman
Barnes, Ernest Sylvester G 15 [s] Hillsdale
Barr, Katherine Abernethy A 17 [n 1, 2] Westfield, N. J.
Barrett, Edith F u [n 2] Stillwater
Barrett, Helen Roberta A u 24 [1, 2]; F u [1, 2] Carmen
Barrow, Lucy Elizabeth A 124 [s] Norman
Barsalou, Katheryn Pearl F u [n [, 2] Norman
Bartlett, Theodore Elbridge A 91 [s, a] Cherokee
Barton, Stella Lee A 40 [s, a] Chickasha
Bassett, Orval Monroe A 69 [l, 2] Granite
Bates, Clarence Edgar P 51 (1, 2) Frederick
Bayless, Bourke Hamilton A 17 [n 1, 2] Claremore
Beasley, Wiley Boss L 22 [1, 2] Guymon

Belknap, Clara Mary Jane F g [1] Fletcher
Bell, Charles Curry A 48 [1, 2] Tonkawa
Bell, John Montgomery A 57 [1, 2, a] Tonkawa
Bennet, Armond Mepham A 12 [n1, 2]; F u [2] McAlester
Bennett, Jim Basden E u 67 [1,2]; A 27 [1,2]; F 4 [1,2] Norman
Berrigan, Agnes Mary A T 120 [s,1,2]; G 13 [1,2] Waukomis
Berrigan, Allegra A 29 [1,2] Waukomis
Berry, Avo A 11 [s] Norman
Berry, Charles Nelson M 33 [1, 2]; A 81 [1] Norman
Berry, Roger Errett A T 110 [1, 2] Pond Creek
Bigford, Clara A u 13 [n s, a] Edmond
Biggerstaff, Estella Agnew A 89 [n 1, 2] Altus
Bird, Jack E 6 [n 1, 2] Pawhuska
Bisbee, Henry Farnsworth A u 5 [n s] Oklahoma
Bishop, Hazel Frances A [n 1] Norman
Bivens, James Andrew A 12 [n 1, 2] Ardmore
Blachly, Lucile Spire A 108 [1, 2] Norman
Black, Josiah Braden P 49 [1, 2] Apache
Blackert, Franz Edward E u [n 2] Geary
Blackert, Helen Ione F 20 group I, [n 1, 2]; A 2 [1, 2] Geary
Blake, Ada Alice A u 6 [s, 2] Norman
Blanchard, Lela Margaret F u [1, 2] Norman
Blanchard, William Grant 14 [n1,2]; F u group I [1,2] Purcell
Bledsoe, Roy Eugene L 11 [1, 2] Oklahoma
Blum, Nellie A T 108 [2] Lyndon, Kans.
Boatman, Andrew Nimrod A 82 [s, 1, 2] Oklahoma
Bohrer, Lottie Jessie A u 51 [1, 2] Norman
Bollman, Noah Newton A 62 [1, 2] Collinsville
Bond, George A 60 [n 2] Terral
Bonham, Earl A 51 [1, 2] Altus
Bonham, Stella Flora F u 11 group I [n 1, 2] Helena
Bonham, Vivian Sara F u 11 group I [n 1, 2] Helena
Botts, Charles Clifford A 48 [n 1, 2] Prague
Botts, Vesper Garnett F u 12 group I [n 1, 2] Prague
Bowen, Orloff Lake A 28 [2] Caddo Mills, Texas
Bowlin, Roy Lindsay A u [n2] Enid
Bowman, Fount DeWitt P 16 [n 1, 2] Hugo
Boyett, Julian Bernard P 34 [1, 2] Stewart
Bradley, Frank Edward P 16 [n 1, 2] Noble
Brauer, Marie Emelyn A 16 [n 1, 2] Norman
Braum, Albert Joe E u [n 1]; A u [1] Oklahoma
Breeding, Allie LaRose F u 15 group II [1] Lexington
Bretch, Don Milone L 35 [1, 2] Hobart

Bretch, Luella Mildred A T 86 [1, 2]	Hobart
Bretch, Pauline A 62 [n2]	Hobart
Bridgwater, Chester Reade F u 42 group II [1, 2]	Norman
Bridgwater, Mabel Irene G [s]	Norman
Bridges, John Solon A u [n 1]	Norman
Briegel, Rosetta Angeline A 50 [n 1, 2]	Thomas
Briggs, Lydia F u [n 2]	Norman
Briggs, Mab F u group I [1, 2]	Norman
Brockman, John Ervin L 27 [1, 2]	Sayre
Bronaugh, Zue Mac F u 12 group II [1, 2]	Hugo
Brooks, Dorothy F u [n 1, 2]	Norman
Brooks, Helen Marcia A 80 [n 1, 2]	Norman
Brooks, Marian A 57 [n 1, 2]	Norman
Brown, Arthur Merton E 12 [n 1, 2]	Comanche
Brown, Dora A u 3 [n s]	Norman
Brown, Harry James A 80 [1, 2]	Anadarko
Brown, Harry Raymond A u [n2]	Norman
Brown, Josephine F u [2]	Norman
Brown, Lillian F u group II [n2]	Guthrie
Brown, Raymond Louis P u 42 [1, 2]	Muldrow
Browne, Howard Storm G 25 [1, 2]	Norman
Bryan, Corrine Elizabeth A u [n 2]	McAlester
Bryan, Lina Eloise F 53 group III [1, 2]	Nelson
Brydia, Carrie Marie A u 17 [n 1, 2]	Okmulgee
Buchanan, Francis F u group I [1, 2]	Norman
Buford, Eddie Dora A T 99 [s, 1, 2,]	Arapaho
Burch, Ruth Erskine A 16 [n s, 1]	Norman
Burns, Percy Lytle E u 8 [n 1, 2]; A u 3 [1, 2]	Ponca City
Burress, George Howard E u 14 [n 1, 2]; A u [2]	Ponca City
Burrow, Reuben Nash P u 31 [1, 2]	Doyle
Burrus, Minnie Lee A 17 [1]	Boswell
Burton, Samuel David A 50 [1, 2]	Erick
Busby, Orel L 38 [1, 2]	Konawa
Butler, Anna May F u 12 group I [n 1, 2]	Norman
Butler, Bess A 10 [1]	Norman
Butler, Elizabeth Margaret F u [n 1]	Okmulgee
Buttram, William A 79 [n 1, 2]	Ada
Byrne, William Eugene E u 17 [n 1, 2]	Ft. Sill
Cahall, Leah A u 8 [1, 2]	Norman
Cain, Homer Dodge F u 21 group I [1, 2]	Norman
Caldwell, Lyda Robertson A 61 [1, 2]	Jackson, Tenn.
Cameron, Crawford William L 65 [1, 2]	Muskogee
Capshaw, Elmer Alexander A u 44 [s, 1, 2]	Norman

Capshaw, Fanny Haynes A 80 [s, a] Norman
Capshaw, Fred A 123 [s, 1]; L 52 [1, 2] Norman
Capshaw, Naomi May F u group I [2] Norman
Carey, Charles Edward E 92 [1, 2] Norman
Carey, Flona Vann F u 18 [1, 2] Nowata
Carey, John Frank E u [n 2] Oklahoma
Carpenter, Murel Edward E u 11 [n 1, 2] Collinsville
Carter, Kittie A 31 [1] Norman
Cash, Edna A 49 [2] Oklahoma
Castile, Andrew Robert A u 14 [1, 2] Norman
Castleberry, Elisha Marvin G 12 [s] Olustee
Caudill, Henry Benjamin A [n 1] Hobart
Charles, John Banister A 15 [n 1, 2] Stroud
Chase, Agnes Miriam F 57 group IV [1, 2] Wynnewood
Christian, Roscoe Loran L 13 [n 1, 2] Manitou
Christmas, Earl A T 110 [1, 2] Pond Creek
Clark, Glenn Cecil A u 116 [s, 1, 2] Comanche
Clark, Randal E 14 [n 1, 2] Shawnee
Clark, William Lynn A u 49 [1, 2] Comanche
Clement, Bessie Alberta F u [1] Norman
Clement, Katie Laura F u [1, 2] Norman
Clift, Hubert Ellwood L 2 [n 1, 2] Blackwell
Clifton, DeEtte Ferne F u [n 1, 2] Norman
Clifton, Eva May F u [s] Norman
Clifton, Leonard LeRoy A 55 [s] Manhattan, Kans.
Cline, Everett Lawrain L 39 [1, 2] Newkirk
Cline, Tilghman John A 70 [1, 2] Atoka
Cobb, Antoinette Caroline A 45 [1, 2] Ardmore
Cobb, Virginia F u 8 [n 1, 2] Sapulpa
Cockrell, Alfred Mordica A u 9 [n s] Holdenville
Collins, Harvey Thomas A 17 [n 1, 2] Norman
Conner, Cecil A 26 [n 1, 2] Covington
Cook, Ada Mildred A u [n s] Oklahoma
Cook, Howard A113 [1, 2] Chickasha
Cook, Lena Grace F 43 group II [1, 2]; A 8 [2] Norman
Copeland, Richard Gardner A 36]1, 2] Chickasha
Cornelius, Bessie Irene A 9 [n 1]; F u [1] Lindsay
Cornelius, Emmett Dewitt A 107 [s, 1, 2] Lindsay
Cornelius, Lorenzo Franklin L u [1] Lindsay
Corporon, George William L 13 [n 1, 2] Norman
Cottrell, Theodore Nathaniel P 64 [s, 1]; M [2] Oklahoma
Courtright, Raymond Orland A u66[1,2];F u49 group I[1] Gotebo
Cousins, Tom A 17 [n 1, 2] Eldorado

Cowden, Clarence Irvine A 109 [1, 2, a]; L 66 [1, 2] Oklahoma
Cowles, Carl Robert A109 [1, 2] Arapaho
Cox, Delbert Clyde P u 15 [1, 2] Sulphur
Cox, Manford Allan L u 56 [1, 2] Tryon
Cox, Roscoe Newton L u 72 [1, 2] Tryon
Cox, Roy William A 77 [1, 2] Arapaho
Crabtree, James Russell E 90 [1, 2] Onawa, Ia.
Cralle, Walter Odro A u 33 [1, 2] Elizabethtown, Ky.
Cralle, Zella Mae A 15 [n 1, 2] Elizabethtown, Ky.
Crawford, Johnson Tallie L 13 [n1, 2] Ada
Crisp, George Marion A 14 [n 1, 2] Norman
Crisp, Leonora Mabel Vincent A u [n s] Norman
Cronkrite, James Benjamin A u 5 [n s] Davis
Crooks, Richard Henry A u [n 1] Duncan
Cross, Howard Benjamin A 49 [1, 2] Lamont
Crowe, Will James L 11 [n 1, 2] Oklahoma
Cruce, Lorena Jane A 35 [n 1, 2]; F u 21 group I(1) Oklahoma
Cullen, Caleb A 27 [n 1, 2] Ingleville, N. Mex.
Cullen, John A 17 [n 1, 2] Ingleville, N. Mex.
Cullen, William A 27 [n 1, 2] Ingleville, N. Mex.
Curtis, Georgia May F 51 group IV [s, 1, 2] A 75 [s,1,2] Norman
Dannenberg, Waldemar A u 79 [1,2]; F u group I [1,2] Chelsea
Danner, Vernice Earle A 105 [1,2] Stillwater
Darrough, Paul Gladstone A 114 [1, 2]; L 13 [1,2] Hugo
Darrough, Will Horrace A [n 1] Hugo
Davis, Amon Carl E 9 [n1, 2] Cherokee
Davis, Elbert Oliver A T u 50 [n 1, 2] Atoka
Davis, Pearl Alleyne F u [n 1] Wewoka
Davison, Denver Norton L 13 [n 1, 2] Bokoshe
Dawson, Raymond Lester A 49 (1, 2) Oklahoma
DeBarr, Cora Belle A u 6 [1] Norman
DeBarr, Helen Celestia A 20 [n 1, 2] Norman
DeBarr, Mary Isabel F u [n 1, 2] Norman
Dendy, Ozella Laura F u [n 2] Elmore
Dendy, Samuel Marcus A u 48 [1, 2] Elmore
Denison, Belva Ruth A 14 (1, 2); F u (1, 2) Norman
Denison, Eunice Ester A 110 [1, 2] Norman
Denison, Nora May A u 20 (s) Norman
Denyer, Samuel Arthur A 105 (1, 2, a); L 13 (1, 2) Chandler
Devore, L. C. F u (n1) Norman
Ditzler, Harold Tate A 1 (n 1, 2) Ardmore
Ditzler, Walter Linginfelter A 66 (n 1, 2) Ardmore
Doolen, Stella Virgin, A u 13 (s) Norman

Drew, May Adah M 4th (1,2)	Eldorado
Driggers, James Robert A 16 (n 1, 2)	Chickasha
Duchow, John G 11 (1, 2)	Perry
Duggan, Jesse Lee, A 27 (n s, 1, 2)	Bishop
Dunaway, Bennie G (1)	Noble
Duncan, Edwin Burton A 71 (1, 2)	Oklahoma
Dunn, Robert North A u 100 (1,2); L u 13 (1, 2)	Poteau
Dwight, Benjamin Hunter L 12 (n 1, 2)	Durant
Eagleton, Elvie Elizabeth, A T 89 (1, 2)	Norman
Eagleton, Mary Eloise G 6 (s)	Norman
Eagleton, Olive A T 81 (s, 1, 2)	Norman
Eagleton, William Lemuel A 61 (s, 1, 2)	Norman
Eastland, Ada May A 108 (n 1, 2)	Oklahoma
Edwards, Royden Jetson A u 6 (n s)	Olustee
Ehman, Lydia Ethel A T u 106 (1, 2, a)	Sulphur
Eischeid, John Theodore A 88 (s, 1, 2)	Norman
Elam, Harry Bond M 54 (1, 2)	Norman
Elliott, Floy Valeria A 74 (s, a); F u (s)	Alva
Ellis, Hardin E u (n 1)	Atlanta
Elrod, Stella Elizabeth F u group II (1, 2)	Kemp
Emenhiser, Asa L u (n1); A u (1)	Enid
Empey, Helen Katherine A 62 (n 1)	ElReno
Epperson, William Sherman G (n 1)	Norman
Eskew, Alice Bandy A 10 (s)	Norman
*Ethridge, Roy Emmett M 38 (s, 1)	Noble
Evans, Lena Gertrude A 21 (n 2)	Okmulgee
Evans, Logan Illk M 70 (1, 2); A 58 (1)	Wilsey, Kan.
Evans, Robert David E 92 (1, 2)	Oklahoma
Fansher, Opal Mina A 71 (n s)	Edmond
Farmer, Mark Kearns A 14 (n 1)	Collinsville
Fenstemaker, Norma A 15 (n 1, 2)	Hobart
Fielding, Edgar Wayne A 74 (1, 2)	Sulphur
Fields, Jesse A u 14 (n 1, 2)	Dewey
Fitzgerald, Harold Edward A (n 1)	Watonga
Fleming, Marquis Leroy A 93 (s)	Hobart
Flood, Alice F u (1)	Norman
Flood, Eva Marie F u (n 1, 2)	Norman
Flood, Ray E 50 (1, 2)	Norman
Forbes, Beulah Belle A 76 (1, 2)	Norman
Forbes, Charles Gerald F u (n 2)	Norman
Forbes, Clyde Francis A u 108 (s, 1, 2)	Norman
Forbes, Margaret Maude F u group I (s, 2)	Norman

*Deceased

Forbes, Ola Alice A T 116 (s, 1, 2); F u (2) Norman
Forrest, Minneola F u (n 1) Stigler
Foster, Otto Earl L 64 (1, 2) Chandler
Foster, Rhoda Olivia A T 111 (1, 2, a) Helena
Foth, Joseph Henry A 78 (n 1, 2) Gotebo
Frye, Jesse Raymond A u 8 (n 1, 2); L u (1) Sallisaw
Furman, Henry Marshall A 52 (1, 2) Oklahoma
Furray, Winifred May F u (1, 2) Norman
Gable, James Jackson M 51 (1, 2) Dawson, Tex.
Galbreath, Robert A 43 (1, 2) Tulsa
Gano, Gordon Lee A (n 2) Guthrie
Gardner, Elmer Beal A 107 (n 1, 2) Argenta, Ark.
Garrett, Robert Ernest G 20 (s) Oklahoma
Garside, Bettice Alston A 106 (1, 2) Stringtown
Gartside, Albert Edward E 138 (1, 2) Oklahoma
Gaskell, Moses Elmer A 105 (s, 1, 2); L u (2) Weatherford
Gentry, Joseph Malcolm A 42 (l) Pond Creek
Gerish, Nettie Luella M 51 (1, 2) Cottonwood Falls, Kan.
Geyer, Bruce Edmond A 74 [1] Norman
Geyer, Forest Park A u 18 [n s, 1, 2] Norman
Gibbs, Ernest Leon F u group 1 [n 1] Norman
Gilbert, Warren John A 7 [n 1, 2] El Reno
Gilkey, Mary Naomi A 15 [n 1, 2] Norman
Gilmore, Henry Nathaniel P 16 [n 1, 2] Orlando
Gittinger, James Price F u [n 2] Norman
Goe, William Emanuel A 76 [1, 2] Norman
Goodrich, Robert David A u 22 (1, 2) Norman
Gordon, Hugh Byron F u (n 2) Georgetown, Ohio
Gordon, Joseph Cowan E 44 (1, 2) Oklahoma
Gorton, Leo Hiawatha E 141 (1, 2) Norman
Gorton, Vera Delle A 116 (1, 2); F 51 group IV (1, 2) Norman
Gourley, Austin Robert L u 10 (n 1, 2) Oklahoma
Grady, Charles William A 15 (n 1, 2) Wheatland
Graham, Roy Adellbert A 78 (n 1, 2) Gibbon
Graham, Stephen Harry M 46 (s, 1, 2) Norman
Grant, George Owen L u (n2) Stillwell
Graves, Lloyd Milner A 54 (s) Orlando
Green, George Leroy A 17 (n 1, 2) Keithsburg, Ill.
Greenhouse, Abraham Charles A 40 (n 2) New York, N. Y
Grider, Ethel Gertrude A u 44 (s) Chandler
Griffin, Jeanette Eleanor A 49 (n 1, 2) Watonga
Griffin, Troy Washington L 14 (n 1, 2) Lexington
Grimes, Herman Hale A 17 (n 1, 2) Prague

Grimes, Odus Earl L 13 (n 1, 2) Miami
Groves, Earl William P 51 (1, 2) Eagle City
Grube, Wesley A 17 (n 1, 2) Broken Arrow
Gunter, Jeff West P 16 (n 1, 2) Shamrock, Tex.
Haage, Arthur Edmund A 84 (s, a) Bartlett, Kan.
Haas, Clarence Edward P 50 (1, 2) Harrah
Haines, Sarah Deborah A T 116 (1, 2); F 10 group I (2) Norman
Hall, Ethel Sylvia F u 8 group IV (1, 2) Norman
Halley, Harry Lee Stuart A 41 (1, 2) Antlers
Hamill, John Ransom A 6 (n 1, 2); E 7 (1); L (2) Guthrie
Hamilton, Amby L 12 (n 1, 2) Chickasha
Hammond, Edith Kate A 47 (1, 2) Norman
Hanford, Eleanor F u 12 (1, 2) Oklahoma
Hansen, Frederick Jacob L u 40 (1, 2) Grandfield
Hardcastle, Dallas A u (n 1, 2) El Reno
Harff, John Raymond A 7 (n 1, 2) Atoka
Harley, John Thomas A117 (1, 2); L 24 (1, 2) Phillips
Harness, Mary A 100 (1, 2); F u (1, 2) Lexington
Harrell, Lowry Houston A 17 (1, 2); L 4 (1, 2) McAlester
Harrington, Charles Harrison L 70 (1, 2) Norman
Harrington, Lenore A 15 (n 1, 2) Norman
Harrington, Irma Jane A 8 (n s) Norman
Harris, Floyd L u 14 (n 1, 2) Oklahoma
Harris, George Gano M 47 (1, 2) Amarillo
Harris, John Franklin G 12 (s, 1, 2) Norman
Harris, Mary Robey A T 91 (s, 1, 2) Norman
Harwood, Cari Gaines A 75 (n s, a) Dover, Mo.
Haseman, Bertha Anne A 98 (1, 2) Linton, Ind.
Hatcher, Eula May A 17 (n 1, 2) Texola
Hatcher, James Fulton L 13 (1, 2); A 81 (n s, 1, 2, a) Frisco
Hatchett, Louise French A 78 (n 1, 2); F u (1) El Reno
Haverstock, Vida Marion F u 8 group I (n 1, 2) Wellston
Hawkins, Ernest Loyd P 16 (n 1, 2) Headrick
Hays, Powell Lambert M 36 (1, 2) Frederick
Helmick, Walter Glenn A 78 (n 1, 2) Wakita
Hendon, Ernest L 14 (n 1, 2); A 3 (1) Ardmore
Hendon, Randall Robert L 5 (n 1, 2) Tecumseh
Henley, Emmett Allen L 8 (n 1, 2); A (1, 2) Bluejacket
Hentz, William Walter L 66 (1, 2) Oklahoma
Herring, Will Clarence A 85 (n 1, 2); L (2) Caddo
Hibbard, Lloyd James E 92 (1, 2) Snyder
Highley, Thomas Hiatt E u 13 (n 1, 2) Oklahoma

Hill, George Robert A 98 (1, 2, a) Vinita
Hill, James Julian A 53 (1, 2) Vinita
Hirschi, Barbara Elma A 47 (n 1, 2); F u (2) Iowa Park, Tex.
Hirshfield, Albert Clifford A 102 (s, 1, 2) Norman
Hobson, Calvin Jackson A u 5 (n 1, 2) Lexington
Hocker, Reginald Nichols A 107 (s, 1, 2) Purcell
Hoke, George Albert L 16 (n 1, 2) Quay
Holland, Annie Blanche A 22 (1, 2); F group I (2) Norman
Holland, James Dortes L 62 (1, 2) Norman
Holland, Hattie A (n 1) Chickasha
Holland, Weaver Everett E 124 (1, 2) Chandler
Holley, Elgar Dowess A 70 (n 1, 2) Stigler
Holman, James Bryant P 51 (1, 2) Norman
Holt, Carl E u (n 1) Altus
Holtzschue, Helen Louise A 66 (1, 2) Oklahoma
Honnold, Claude Leo A 84 (s) Thomas
Hood, James Claude A u 17 (n 1, 2) Erick
Hood, William Robert P 51 (1, 2) Erick
Hoskins, Louis Harley A u 51 (n 1, 2) Okmulgee
Hott, Oliver James E u 19 (1, 2) Wakita
Hott, Sabert Alfred E 97 (1, 2) Wakita
Hott, Willis Monroe E u 4 (n 1, 2) Wakita
Houk, Joseph Dawson A 70 (1, 2) Isabella
Houston, Edwin Clarence P 49 (1, 2) Norman
Houston Irene Alda F u (n 1, 2) Rocky
Houston, Olla A u 50 (1) Enid
Howard, Merle Quest M 14 (n 1, 2) Oklahoma
Howe, Frank George A 107 (1, 2, a); L 13 (1, 2) Norman
Howe, Helen Margaret G (1) Norman
Howell, Clyde A 84 (n s, a) Edmond
Howell, Warren Elmer A u 5 (ns) Marshall
Hubbard, Doctor Kirkscey A u (n1); F u (1) Russellville, Ark.
Huffman, Sherman Albert A 16 (1, 2) Wellston
Huggins, John Robertson L u 13(n 1, 2); A 57(1) Grapevine, Tex.
Hughes, Russel Ward A u 6 (n s) Henryetta
Hull, Lee P 15 (n s, 1, 2) Norman
Hunt, Elton Ballinger L 68 (1, 2) Alex
Hunt, Percy Slayden L u 50 (1) Wagoner
Hurst, Beulah Josephine A T 85 (1, 2) Pawnee
Hutton, Charles Elmer A u 8 (n s, a) Hinton
Hutton, Minta F u (n s, a); A u (a) Hinton
Hyde, Clarence Edgar A 61 (1, 2) Konawa
Impson, Hiram William A 37 (1, 2) Bokchito

Ingle, Marcus Byron L u (n 1) Hennessey
Irwin, Francis Leon M 7 (n 1, 2) Kaw City
Isle, Walter Whitfield A u 8 (a) Pauls Valley
Ives, Eva Lovina A 60 (1) Avery
Jackson, Robert Edwards A 115 (1, 2) Sallisaw
Jacobs, John Clark A u 26 (1, 2) Mangum
Jenkins, Cleo P 10 (n 1, 2) Kaw City
Jennings, Edward Allen A u (n s) Norman
Jennings, Grace Gertrude A u 8 (n s) Norman
Johnson, Arline F u (1, 2) Norman
Johnson, Charles Boggy L 66 (1, 2) Norman
Johnson, Clarence P u 51 (1, 2) McComb
Johnson, Hazel Meredith A 15 (n 1, 2) Fredrick
Johnson, Homer Lee G 8 (s) Two Buttes, Colo.
Johnson, Henry Lee A u 63 (1, 2) Hollis
Johnson, Joe Weaver A 110 (1, 2) Durant
Johnson, Lucille A 17 (n 1, 2) Pawhuska
Johnson, Neil Robert A 50 (1, 2) Norman
Jones, Ella Vera A 5 (n 1, 2) Wynnewood
Jones, Ester Lee M 34 (s, 1) Monmouth, Ill.
Jones, Harry Grady P 24 (1) Wichita Falls, Tex.
Jones, James Lee A 15 (1, 2) Kingston
Jones, Margaret Nevada N 3rd year (1, 2) Oklahoma
Jones, Milo L 71 (1, 2) Johnson City, Tenn.
Jones, Naomi A 17 (n 1, 2); F u group II (1, 2) Duncan
Jones, Orthell Eugene L 26 (1) Oklahoma
Jones, Ruth Mildred A 17 (n 1, 2) Duncan
Judy, William Blaine A 50 (1, 2) Pawnee
Karcher, Clarence John E 17 (n 1, 2) Hennessey
Keenan, Robert Bruce A 105 (1, 2); L u 7 (1, 2) Tahlquah
Keiger, Nina Estelle A 109 (s, 1, 2); F 55 group IV (2) Norman
Kent, Fay F u Group I 17 (1); A u 17 (1) Chandler
Kerfoot, Hubert Potter L u (n 1) Oklahoma
Kinchen, Oscar Arvle A u 9 (n s, 2) Erick
King, Garland Lycurgus A u (n 2) Oolagah
Kinnebrew, Jackson Alvin A u 20 (s) Pauls Valley
Kinnick, Helen Lucile A 59 (a) Perry
Kirby, Grady A 54 (s, 1, 2) Scottsboro, Ala.
Klass, John Paul A 17 (n 1, 2) Chelsea
Klein, Bessie Louise A T 73 (1, 2) Oklahoma
Klinglesmith, Ruth Elizabeth A 22 (n 1, 2) Norman
Knapp, Seth Byron P 15 (n 1, 2) Gig Harbor, Wash.
Knappenberger, Clarence P 51 (1, 2) Earlsboro

Lackey, Robert Vinson F u 51 group IV (s 1, 2) Norman
Lambert, Emma Pearl A T 86 (n s, 1, 2, a); F u (1, 2) McLoud
Land, Garnett James A u (n 2) Oklahoma
Lane, James Hutchinson P u 49 (s, 2) Nashville, Ark.
Langston, Wann M 20 (n 1, 2) Francisco, Ala.
Latham, John Fred L (n 1) Canute
Lauderdale, Thomas Le Roy M 4th (1, 2) Cushing
Lawhead, Josephine Hadden A 51 (1, 2) Mountain View
Leach, Alice Olive N lst year (n l, 2) Oklahoma
Leach, Eunice Paige A 17 (n 1, 2) Carbondale, Kans.
Leach, Grace Martha A T 109 (1, 2, a) Norman
Leach, Nina Naomi F u group II (s, 1, 2) Norman
Leach, William Tecumseh G 18 (s) Norman
Ledbetter, Gene Paul L 41 (1, 2) Oklahoma
Lee, Eva F g (1) Norman
Lee, Muna A 82 (s) Hugo
Le Force, Sara Kathrine A u 23 (s) Jefferson
Lemon, Frank Clinton E 17 (n 1, 2) Hennessey
Lewis, Roy St. L u 12 (n 1, 2); A u (1, 2) Sharon, Pa.
Lewis, Roy Van L 28 (1, 2) Norman
Lindsay, Ruby May F u group I (1) Norman
Link, Della Celeste F 47 group III (1, 2) Norman
Little, James Monroe L 83 (1) Norman
Livergood, Homer E 87 (1, 2) Newkirk
Logan, Leonard Marion A 78 (n 1, 2) Tahlequah
Long, Sallie A 50 (1, 2) Wagoner
Loomis, Ada Mary A 17 (n 1, 2) Cherokee
Loomis, Harve Ezra A 66 (1, 2) Norman
Love, Joe Criner A u 16 (n 1, 2) Purcell
Lowry, Dick M 20 (1, 2); A 78 Norman
Lowry, Tom M 20 (1,2); A 81 Norman
MacTaggart, Marian F u 25 group III (n1,2) Oklahoma
MacTaggart, Neil Burnett E u 23 (1, 2); A u 16(1,2) Oklahoma
Mahaffie, Robert Elmer M (n1) Buckville, Ark.
Malone, Alonzo Grady P 51 (1, 2) Pryor
Malone, Pauline Eloise F 37 group III (1, 2) Pryor
Mallory, Jasper Newton A u 38 (n s, a) Ponder, Tex.
Maloy, Addie A T 69 (s 1, 2) Norman
Manning, Addie Okla L u 49 (1, 2) Ringwood
Markham, David Hogan A u (n 2) Tahlequah
Martin, Carrie Anne F 8 group I (1, 2) Norman
Martin, George Dale E u 21 (n 1, 2) Shawnee
Martin, Glenn A u 77 (s, 1) Erick

Martin, Hazel F u 24 group II (1)	Erick
Martin, John Alfred M u 4th (1, 2)	Oklahoma
Martin, William Allen M 51 (1, 2)	Valliant
Mavity, Ralph Page M 48 (1, 2)	Tonkawa
McCain, Barns A u 82 (1, a); L u (1)	Quinton
McCall, Anne Rotan A 22 (n 1, 2)	Norman
McCall, Madge Lucille F u (n 1)	Norman
McCann, Ethyl Gertrude N lst year (s, l, 2)	Oklahoma
McCasland, Thomas Howard A 17 (n 1, 2)	Duncan
McClellan, Mildred A u 54 (s, 1, 2); F u (1, 2)	Norman
McClure, Florence Elizabeth A 52 (1,2);Fu group I(1,2)	Sulphur
McClure, John Peebles A 61 (s,1,2); F group I (1)	Sulphur
McClure, Margaret Maxine F u (1, 2)	Norman
McClure, Nell May A 12 (n 1, 2); F u (1)	Cushing
McClure, Sadie Bell F u (n 1)	Norman
McCombs, Thomas Marcum L 53 (1, 2)	Sallisaw
McCracken, Clyde Homer A 122 (a)	Boliver, Mo.
McCullough, Archibald Mason A u 41 (s)	Norman
McCullough, Henry Wilson F 12 group I (n 1, 2)	Arapaho
McDonal, Azalia Grace F u (n 1)	Norman
McDougal, Mary Carmack A 61 (n 1, 2)	Sapulpa
McDougal, Violet Audrey Au26(n1,2);Fu l5 groupI(1,2)	Sapulpa
McElroy, Crispin A u 1 (n 1)	Oklahoma
McFerron Elva Ellen F g (1)	Norman
McFerron, Nellie Jane A 54 (s,1,2); F u group I (1, 2)	Norman
McGinley, Nellie May F u (2)	Norman
McGuire, Bernice Clara A u 17 (s)	Norman
McGuire, Margurette F u 16 (s)	Norman
McGuire, Maude F u group II (s, 1, 2)	Norman
McGuire, Willie F u (s, 1, 2,)	Norman
McIntosh, Daniel Newman L 73 (1, 2)	Checotah
McKennon, John Buckner A 9 (n 1, 2)	McAlester
McLauchlin, Anna Elizabeth A 104 (s, 1, a)	Edmond
McLaury, Finley L 13 (n 1, 2)	Snyder
McMahon, Eugene A 17 (n 1, 2)	Lawton
McMakin, Florence Ila F g (1, 2)	Norman
McMillan, Cecille Gertrude A 9 (n 1, 2)	Madill
McMillan, Elizabeth F 59 group I (1, 2)	Norman
McNutt, Mildred N lst year (n s, l)	Oklahoma
McWhirt, Burr Best A 117 (1, 2)	Roff
Meacham, Edgar A 69 (1, 2, a)	Clinton
Meacham, Ray Ferrell A 110 (1, 2, a)	Clinton
Meador, Girdie Emery A u 54 (s, 2)	Norman

Memminger, Charles Burrows A u 84 (1, 2) Atoka
Memminger, Martha Riley A u 6 (n 1, 2); F u (1) Atoka
Merkle, Bess A 74 (1, 2) Norman
Meyer, Milton Fredric L 5 (1, 2); A 110 (1, 2) Holton, Kans.
Miles, Walter Howard M 36 (1, 2) Oklahoma
Miller, Fred Lamont P 16 (n 1, 2) Wakita
Miller, Leora Gladys A 34 (1); F u group I (1) Kaw
Miller, Mary Emelyn A 17 (1, 2); F group III (2) Norman
Miller, Nannie Lee G (1) Norman
Miller, Richard Keith A 48 (1, 2) Norman
Mitchell, Greta Mabel A u 5 (n s) Norman
Mitchell, Lulu Grace N 1st year (s, 1, 2) Oklahoma
Mitchell, Roy Clyde E 55 (1, 2) Norman
Monnet, Eugene Orton A 17 (1, 2) Norman
Monnet, Florence Eleanore F u (n s, 2) Norman
Montgomery Alvaro Ray A u (n 2) Walters
Montgomery, Arthur Emerson L u 13 (n 1, 2); A u (2) El Reno
Montgomery, Effie Irene A 47 (1, 2) Norman
Montgomery, Myrtle Winifred G 24 (s) Norman
Moomau, Hattie Poyntz F u (n 1, 2) Norman
Mooney, Ollye Olivia A u 11 (n 1, 2); F u (1, 2) McLoud
Moore, Albert Reed A 27 (n 1, 2) Oklahoma
Moore, Helene Catherine F u group I (n2) Norman
Moore, Louie Aline A 90 (1, 2) Arapaho
Morgan, Chester Cole P 51 (1) Altus
Morgan, George Dillon A 19 (n 1, 2) Norman
Morgan, Helen Fay F u 6 group II (1) Norman
Morris, Glen Oliver A u 10 (s) Arkansas Pass, Tex.
Morris, Lewis Reavely A 49 (1, 2) Norman
Morris, Ruth Simpson A 25 (n s, 1, 2) Norman
Morter, Roy Alton M 4th (1, 2) Norman
Muck, Charles Winifred E u (n 1) Cherokee
Munch, Perrill Elizabeth A u 86 (1, 2) Hennessey
Mundy, Doris Geneva F 47 group II (1, 2) Wanette
Murphy, Charles Leo P 51 (1, 2) Nakomis, Ill.
Murphy, Helen Alice Brown N 3rd year (1, 2) Oklahoma
Myers, George Harrison A 110 (1, 2) Muskogee
Myers, Morris Thurman G (1) Shawnee
Nairn, Etta F u 9 group I (1, 2) Nowata
Nairn, James L 66 (1, 2) Nowata
Neal, John Robert M 3rd (1, 2) Comanche
Neff, Samuel O'Connor L 13 (n 1, 2) Oklahoma
Neil, Dan A u 50 (1, 2) Billings

Neves, Jane Ethel F u 7 (n 1, 2)	Oklahoma
Newby, Jesse Dimple F u (s)	Norman
Newby, John Alexander E u 62 (1)	Norman
Newby, Merle Edelweiss A 124 (s)	Norman
Newell, John Pierce L 13 (n 1, 2)	Oklahoma
Newell, Ruth Brannon F 45 group IV (1, 2)	Norman
Newkumet, Charles Warren A u (s, 1)	Norman
Nichols, Clarence VanBuren P 4 yr. 80 (1, 2)	Anadarko
Nichols, Nina Gaynelle N lst year (s)	Oklahoma
Nicholson, Arthur Clyde L 16 (n 1, 2)	Waco, Tex.
Nighswonger, Harrison Worth A 120 (a)	Alva
Norman, Crofford Wilson A 12 (n 1, 2)	Randlett
Norman, Zoe A 79 (s, a)	Oklahoma
Northcutt, Ernest Ovid L u (n 1)	Elmore City
Oakes, George L 13 (n 1, 2)	Grove
Oakes, Malcolm Christie E 60 (s, 1, 2)	Waurika
O'Connell, Mary Eleanor A u 20 (s, 2)	San Antonio, Tex.
Odell, Abbie Venice N 3rd year (1, 2)	Oklahoma
Oderman, Harry Stephen E u 15 (n 1, 2)	Oklahoma
Oliver, Bertha G 9 (s)	Norman
Oliver, Mayme A T 76 (1, 2)	Guthrie
Orr, Charles Laurence L 38 (1, 2)	Roff
Ostenberg, Stella Cecelia A 17 (n1,2); F u group II(2)	Claremore
Oster, Clifford Carl E u 17 (n 1, 2)	Hobart
Osterhaus, Katie Dorethea A 19 (1, 2)	Norman
Owen, Owen L u 40 (1,2)	Caney, Kan.
Pahlman, Paul James E u 1 (n 1)	Norman
Parker, Everett Cecil A 68 (2, a)	Anadarko
Parkhurst, Robert Moore A 111 (1, 2); L 13 (1, 2)	Cherokee
Parks, Alexander Baird G 9 (ns)	Chelsea
Parsons, Frank A u 69 (s, 1, 2)	Civet
Patterson, Mayme Lela A 51 (n 1); F u (1)	Prague
Patton, Esther A T 112 (1, 2)	Norman
Patton, Mary Emma F u (1)	Norman
Patton, Pansy Patti F u (1)	Norman
Paxton, Adelaide Frances F u (1, 2)	Norman
Pearl, Maurice Orpheus Wood G 16 (n 1, 2)	Enid
Pearl, Mussetta Markland L u 13 (n 1, 2); A u (1, 2)	Enid
Peck, Jodie Chloe N lst year (n 1, 2)	Oklahoma
Pendleton, Eva Marguerite F u group 1 (1, 2)	Norman
Pendleton, Jasper Dunsmore A 11 (n 1, 2)	Altus
Pendleton, John Freeman L 38 (1, 2)	Talala
Pendleton, Lucile Marguerite F u (n 1, 2)	Talala

Penn, Georgia Edna A u 14 (s, 1)	Norman
Peterson, Kenneth Berry L 13 [2]	Tahlequah
Petty, Curtis A u 15 (n 1, 2)	Noble
Petty, Earl A u 15 (n 1, 2)	Noble
Phipps, Cora Etta N 3rd year (l, 2)	Oklahoma
Phipps, Isa N lst year [s, l]	Oklahoma
Pickard, Ana P 50 (s, 1, 2)	Norman
Pickard, Lelia A u (s)	Norman
Pickering, Jennie Fidelia F u (n2)	Stillwater
Pitts, Dona Marie A 17 (n 1, 2)	Norman
Pitts, Marvel Olive A u 8 (n s)	Norman
Ponder, Charles Elmer A u 2 (n 2)	Mangum
Powell, May Belle N 3rd year (l, 2)	Oklahoma
Pownell, Admiral Munrow E 7 (n 1, 2)	Hennessey
Preskitt, Varney P u 46 (1, 2)	Norman
Price, Harry M 4th (1, 2)	Tulsa
Proctor, Verner Thadious A u 5 (ns)	Marshall
Proffitt, John Ray P u 24 (2)	Norman
Pruet, Robert Ray A 75 (s, 1, 2, a)	Norman
Pulley, Augusta Jane N lst year (n l, 2)	Oklahoma
Pyle, Albert Forbes A 13 (2); E u 14 (n l)	Muskogee
Pyle, Ida Agnes F 33 group IV (l, 2)	Houston, Tex.
Rabon, Edward Ray L ll (l, 2)	Stigler
Radcliffe, Earl Warren G 30 (s, a)	Enid
Rader, Jesse Lee G l8 (2)	Newkirk
Randol, Robert Luther A 53 (a)	Ardmore
Rawlings, Ralph L u 32 (l, 2)	Sulphur
Rea, William Robert A 74 (l, 2)	Canute
Reed, Frank Fenton A u 2 (n 1, 2)	Norman
Reed, Frank A u (n 2)	Oklahoma
Reed, Freda A u (n 2)	Oklahoma
Reed, Nina Esther F u 10 group I (n l, 2)	Sapulpa
Reeds, Claude Edwin A u 68 (l, 2)	Norman
Reeves, George Moss L l4 (n l, 2); A 3 (l, 2)	Muskogee
Renshaw, David Ellery E ll8 (l, 2)	Hennessey
Reynolds, Kenneth Egbert E 22 (n l, 2)	Weatherford
Reynolds, Norman Eben L u 38 (1, 2)	Muskogee
Rice, Nora N lst year (n l, 2)	Oklahoma
Richards, Anna Myrtle A 56 (1, 2); F u group I (l)	Lindsay
Richards, Arthur Lee A 96 (s, l, 2, a)	Denton, Tex.
Richards, Laura Alexander A 55 (n s, l, 2)	Denton, Tex.
Riley, Charles English P ll (n l, 2)	Erick
Riley, Fletcher Settle A l4 (n l, 2)	Lawton

Riley, James Robert E u 42 (2); A u 41 (2) Lawton
Riley, Robert Hickman M 4th (1, 2) Ripley
Risen, George Larrabee P 64 (1, 2); F u (1) Hooker, Tex.
Roberts, Sidney Arthur L 29 (1,2); F u group I (1); A (2) Chelsea
Robey, Annie Laurie A 64 (1, 2) Davidson
Robey, Grace Lucile A 46 (1, 2) Davidson
Robey, Roberta A 83 (a) Davidson
Robey, Winnie A T 110 (1, 2) Davidson
Robinson, Theron Wheeler A 17 (n 1, 2) Britton
Robison, Hugh Bert A 17 (n 1, 2) Tonkawa
Rochford, Gerald Ashford P 5 (n 1, 2) Ralston
Rock, John Lestrange A 98 (1, 2) Lexington
Rogers, Charley Elkins A 80 (1, 2) Ozark, Mo.
Rogers, John Powell L 42 (s, 1, 2); A (s) Holdenville
Rogers, Russel Fladger E u (n 2) Muskogee
Rogers, Sherman A 12 (n 1, 2) Springfield, Mo.
Rohrer, Katheryn Blanche A u 9 (n s) McAlester
Rollo, James Wilson M 4th (1, 2) Gage
Rosenstein, Claude Houston L 66 (1, 2) Edmond
Runyan, Foy Anne A u 6 (1) Norman
Russel, Eula A 15 (n 1, 1) McAlester
Rutherford, Joel Arrington L 36 (1, 2) Wagoner
Sadler, Ruth Vail A u 6 (n s) Norman
Salter, Lewis Spencer F g (1, 2); A u 72 (s, 1, 2) Carmen
Sanders, Jesse Thomas A 63 (a) Snyder
Sapper, Herbert Victor Louis A 83 (s, 1, 2) Hartford, Conn.
Sawyer, Mary A T 59 (s, 1, 2) Norman
Sawyer, Roger William A 45 (s, 2) Norman
Saxon, Hattie Lee F u group I (2) Norman
Scales, Opal Amanda A u 22 (s) Calvin
Scales, Pearl Ruth A u 24 (s, a) Calvin
Schiele, Bertha Louise F u group I (n 1, 2) Oklahoma
Schmidt, Anna Marie Helen F u group I (n 2) Lone Wolf
Schmidt, George Frederick William F g (1,2); A u 66 (s) Lone Wolf
Schofield, Maurice William E u 48 (1,2); A u 25 (1,2) Luling, Tex.
Scivally, Grace F u group I (n 2) Springer
Scott, Harry Murphy A 93 (2) Blackwell
Scruggs, Juanita Gladys F u group I (1, 2) Norman
Searle, Harry Eugene P 15 (n 1, 2) Norman
Shapard, Charles Bell A 57 (1, 2) Pawnee
Sharp, Helen Irene F u 8 group I (n 1, 2): A 8 (1) Oklahoma
Sharp, John Fletcher A 17 (n 1, 2) Oklahoma
Shaw, Annie May A 64 (n 1, a) Stillwater

Shaw, Bertha M. N lst year (n l)	Oklahoma
Shead, Ralph Brownell A u 36 [s, 1, 2]	Norman
Shear, Roy P 16 [n 1, 2]	Newkirk
Sheldon, Seward Ross A 47 (1, 2)	Cherokee
Shepler, Fred Butler A 46 [1, 2]: F u [1]	Lawton
Sheppard, Hubert A u 17 nl, 2]	Cordell
Sheridan, Philip Record A u [2]: L u [n 1]	Paoli, Kans.
Sherman, Catharine A 80 [n l, 2]	Alva
Shingledecker, Mary Mae F u [n l]	New Mayville, Pa.
Shoemaker, Nine Joe A u [n l]	Dewey
Shumate, Maud Chenault A u 6 (n s)	Fairview
Shumate, Wade Hampton A 88 (n s)	Fairview
Sitlington, Mary A 7 (n l)	Norman
Skinner, Howard Burris A u 28 (1, 2)	Weleetka
Slatkin, Harry A 110 (1, 2)	Vilna, Russia
Slaughter, Dell Pemberton F u group I (1)	Savannah, Ga.
Sloniger, Inez A T 82 (1, 2)	Crete, Neb.
Sloniger, Zazel G 32 (s)	Norman
Smiser, Raybourn Harmon L u 13 (n l, 2)	Oklahoma
Smith, Edna Florence A 97 (s, a); F u (s)	Moore
Smith, Frank Kye A 46 (1, 2)	Kiowa
Smith, George Cline G (s)	Norman
Smith, Leah Belle A u 29 (2)	Norman
Smith, Leonard Early P u (n l)	Collinsville
Smith, Melba F u (1, 2)	Norman
Smith, Owen L (n l)	Muskogee
Smith, Ralph Gordon P 51 (1, 2)	Apache
Smith, Robert Earle M 4th (1, 2)	Norman
Smith, Sam Jones A 122 (1, a); F u group I [1]	Ada
Smith, Talmage Austin A u 24 [s]	Kiowa
Smith, Wells L u (nl)	Newark, Mo.
Sneed, Lee Vincent A u [n l, 2]	Oklahoma
Snider, Lafayette Benjamin A 106 [1, 2]	Weatherford
Snodgrass, Amzie Martha A u 3 [n l, 2]	Oklahoma
Snyder, Leslie E u 5 [n l, 2]	Ponca
Sommerville, Roma Mae F u 3 [1]	Norman
Southward, Claude A u 26 [s]	Marlow
Sowder, John Byron L u 66 [1, 2]	Norman
Speakman, Howard L u 13 [n l, 2]	Wellston
Spears, Roy Alonzo A 68 [1, 2]	Granite
Spring, Jesse Henry E u 18 [s]	Hugo
Stacy, Dean Moore A 59 [1, 2]	Chickasha
Staedelin, Maud Agnes A 17 [1, 2]	Medford

Steckel, Edith Mildred A 42 (1, 2) Norman
Steele, Charles Bridgeman A 66 (2, a) Keller
Steen, Carl M 3rd [1, 2] Floydada, Texas
Stein, Edith Myrtle A 15 [n l, 2] Cherokee
Stein, Geneva A 15 [n l, 2] Cherokee
Stephens, Bettie A 80 [s, a] Chandler
Stephens, Etta A u 7 [n s] Norman
Stephens, Isaac Gideon A 13 [n l, 2] Norman
Stephens, Nina A 89 [s, a] Norman
Stevenson, Alfred L u 13 [n l,2]; A u 2 [1, 2] Stratford
Stewart, Robert Giffen L [2]; A 7 [n l] Lawton
Stigler, William Grady A 71 [n l, 2]; F u [l]; L u [1] Stigler
Stiles, Grace Mara F 25 group II (l, 2) Edmond
Stinson, Robert Wilcox E 83 (l, 2) Mountain View
Stire, Richard Clifford P (n 2) Arkansas City, Kan.
Stirman, George Rogers L 13 [n 1, 2] Dardanelle, Ark.
Stobaugh, Guy A u 4 (n 1, 2) Mannsville
Stratton, Constance A T 111 [1, 2]; F u [1, 2] Stroud
Strong, Arthur Leonard A u [n s] Oklahoma
Sullivan, Paul Dodson A u 17 [n 1, 2] Lone Grove
Sullivan, Ruth A u 14 [n 1, 2] Lone Grove
Sullivant, Jessie Ruby F u [1, 2] Norman
Suman, Edwin Elisha M u 9 [n 1, 2] Ponca
Sumner, Arthur Julian F u group I [n 1] Sentinel
Sutherland, Eugene Laird P 16 (n 1, 2) Lawton
Swanson, Archie Glenn L 60 (1, 2) Muskogee
Taliaferro, John Ambrose A 17 (1, 2) Madill
Taylor, Beulah A (n 2); F u (2) Snyder
Taylor Guy Horace A u 9 (n 1, 2) El Reno
Taylor, Louise Southgate A u 15 (1) Baltimore, Md.
Taylor, Randall M u 3rd (s, 2) Oklahoma
Taylor, Ross Alva E u 23 (1, 2) Snyder
Tebbe, Gerald Stamper A 17 (n 1, 2) Perry
Thacker, Mabel Arvilla G 9 (s, a) Lexington
Thomas, Chester Reams A 51 (1, 2) Tulsa
Thomas, Mabel Elizabeth A 48 (1, 2) Newkirk
Tibbetts, Leadren P (n 1, 2) Seiling
Tillotson, Bonnie N lst year [s] Oklahoma
Tisdel, Dana Mason A 87 (1, 2) Muskogee
Tittle, Lem Hensley L u 30 (1, 2) Mangum
Toberman, John Philip L u 38 (1, 2); F u (s, 1, 2) Norman
Tolbert, Jennie Gilbert A T 82 (1, 2) Hobart
Tolbert, Raymond Augustin L 66 (1, 2); A 124 (s) Hobart

Tolbert, Ruth Ann A 17 (n 1, 2)	Hobart
Toomer, Morrison Reasoner A 68 (1, 2)	Muskogee
Townsend, Bootie A u 12 (n 1, 2)	Fort Worth, Tex.
Tribbey, Floyd Overton P 51 (1, 2)	Maude
Trout, Bonnie Lee N lst year (n l)	Oklahoma
Trout, Laurence Emory G 12 (1, 2)	Norman
Trout, Lena Pearl A u 82 (s, 1, 2); F g (1, 2)	Norman
Trunk, Matilda Marguarit A 69 (n s)	Weleetka
Tucker, Minnie Lavada N lst year (n 1, 2)	Oklahoma
Turk, Florence Warner A u (n 2); F u group I(2)	Lexington
Turk, Solon William L 58 (1, 2); F u (1)	Lexington
Turnbull, Charles Cleveland A 58 (1, 2)	Caddo
Turner, Halley John A u 44 (1, 2)	Pawnee
VanBuskirk,Florence Nellie Fu44 group III(l,2);Au51(2)	Seminole
VanEaton, Marjory Marie A u 12 (n 1, 2); F u (2)	Ft. Cobb
Van Noy, Walter A u 12 (n 1, 2)	Tishomingo
Van Slyke, Frank Eugene A 73 (1, 2)	Tonkawa
Vernor, William Miller E u 12 (n 1, 2)	Ardmore
Von Tungeln, Alfred Harmes A 14 (n 1, 2)	Lone Wolf
Wails, Charles Edgar P u (n 2)	Norman
Waldrep, Thomas Carnes L u 13(n 1, 2); A u 2 (1)	Shawnee
Walker, Donald Edward A 43 (s, 1, 2)	Norman
Walker, Helena Maude F u 32 group I (1, 2)	Norman
Walker, Paul Gilbert A u (n 1)	Oklahoma
Walker, William Archibald P 16 (n 1, 2)	Holdenville
Waller, James Leamon A u 83 (s, a)	Fort Gibson
Walton, Joe Allen A u 17 (n 1, 2)	Wapanucka
Warner, Hiram Alford A 73 (n s)	Richland
Watkins, Alma Mary g F (l, 2)	Norman
Waters, Samuel Spillman A u 9 (n s)	Wagoner
Watson, Frank Nelson L 67 (l, 2)	Pond Creek
Watson, Joseph Dent E u 43 (s, l, 2);F group I (l)	Oklahoma
Wax, Edgar A 17 (n l, 2)	Waurika
Weatherred, Callie F u 39 group I (l, 2)	Durant
Weatherred, Juanita Agnes A 65 (l, 2)	Durant
Weaver, Amelia A 17 (n l, 2)	Oklahoma
Weaver, Floy A T 88 (l, 2)	Oklahoma
Webb, Irma Marguerite A u 14 (n l, 2)	Norman
Webb, Roy Abner M u 29 (l)	Pauls Valley
Webber, Carl Samuel A u l (n l)	Calumet
Webster, Calla Vandivier A 3 [s]	Norman
Webster, Tine Hayes A 9 [s]	Norman
Weeden, Henry John A u 83 [l, 2]	Norman

Weimer, Ben A 12 (n 1, 2); E u 12 (2)	McAlester
Weis, Effie Edward P 1 (n 1)	Higgins, Tex.
Welch, Oscar Lee E u 12 (1, 2)	Purcell
Welch, Percilee F u 1 (1); A u (s)	Norman
Welch, Russell A u (n s)	Norman
West, Benjamin Harrison A 104 [1,2]; L 13 [1, 2]	Navina
West, Willis Kelley M 43 (1, 2)	Oklahoma
Westfall, Chester Harold A 17 [n 1, 2]	Chickasha
Westhafer, Terrence Onas A 76 [s, 1, 2]	Buffalo
Westmoreland, Susan Elizabeth N 3rd year (1, 2)	Oklahoma
Wetzel, Walter Newton L 3 [n 1, 2]	Oklahoma
Wheeler, Dona Ogle A 120 [s, 2, a]	Dill
Wheeler, Elsie Rachel A 30 [s]	Okemah
Whinery, Frank William G 9 [s]	Perry
Whinery, Marie Elizabeth A 16 [n 1, 2]; F u [1]	Tonkawa
White, Henry George E u 13 [1, 2]	Chickasha
White, Lillian Ethel A 14 [n 1, 2]	Hartshorne
White, Luther Herman A 75 [1, 2]	Altus
Whitehurst, Martha Anzanette A T 109 [1, 2]	Ardmore
Whitwell, Earle Vernon A u 43 [1]	Norman
Whitwell, Ray E u 16 [1, 2]	Norman
Wikoff, Marguerite Ruth F u 10 group I (n 1, 2)	Oklahoma
Wikoff, Marion Helen F u group I [n 2]	Oklahoma
Wiley, Alvin Ray M 4th (1, 2)	Tulsa
Wilkinson, Myrtle A 17 (n 1, 2)	Sapulpa
Williams, Jennie Gladys F u 9 group III (1); A 10 (1)	Purcell
Williams, William Franklin L 14 (n 1, 2); A 4 (1, 2)	Ardmore
Williams, Junia A 69 (n 1, 2)	Guthrie
Williams, Raymond Bezae F u 30 group III (1, 2)	Norman
Willibey, William Herbert A 47 (1)	Sapulpa
Willis, Jackson A u 15 (n 1, 2)	Marlow
Wilson, Edna Sue A 17 (n 1, 2)	Shawnee
Winsor, Mildred Alice A 54 (1, 2)	Frederick
Wintin, Leota King A 67 (s)	Norman
Wolf, Arthur Roscoe G 6 (1, 2)	Norman
Wolf, Leo A 17 n (1, 2)	Newkirk
Wood, Homa L 5 (1, 2)	Blackwell
Woolsey, Everest Verne A 32 (2)	Hennessey
Wright, Asa M 4th (1, 2)	Webb
Yeager, Valeria Helen A T 75 (1, 2)	Tulsa
Yeakel, Earle Leroy A 78 (1, 2); M 15 (1, 2)	Wichita, Kan.
Young, Francis Edgar L u 1 (1, 2)	Norman
Young, Omer Romanes A u 34 (s, 1, 2)	Norman

Young, Pearl F u 7 (l, 2)	Norman
Zimmerman, Allen Paul E u (n l)	Sapulpa
Zink, Mildred Cora A T 65 (s, l)	Norman
Zook, Dottie Earl A u 8 [n s]	Beulah, Mo.

SUMMARY OF STUDENTS BY SCHOOLS AND CLASSES

THE GRADUATE SCHOOL (Exclusive of Summer Session)	14	14
THE COLLEGE OF ARTS AND SCIENCES		
Seniors	55	
Juniors	64	
Sophomores	74	
Freshmen	119	
Unclassified	106	418
THE SCHOOL OF FINE ARTS		
Graduate Students	8	
Seniors	6	
Juniors	4	
Sophomores	4	
Freshmen	9	
Unclassified	142	173
THE SCHOOL OF LAW		
Third Year	13	
Second Year	16	
First Year	49	
Unclassified	39	119
THE COLLEGE OF ENGINEERING		
Seniors	6	
Juniors	7	
Sophomores	5	
Freshmen	10	
Unclassified	35	63
THE SCHOOL OF MEDICINE		
Seniors	8	
Juniors	3	
Sophomores	5	
Freshmen	18	
Unclassified	4	
Training School for Nurses	17	55
THE SCHOOL OF PHARMACY		
Four Year Course	1	
Second Year	17	
First Year	21	
Unclassified	8	47
THE SUMMER SESSION		
Graduate School	18	
Arts and Sciences	140	
Fine Arts	14	
Training School for Nurses	6	178
ABSENTIA	47	

GENERAL SUMMARY

Summer Session (1912)	178
Grand Total	1115
Total excluding all duplicates	876
Total excluding absentia students	866
Total in residence exclusive of summer session	777

COUNTIES AND STATES REPRESENTED 1912-13

Adair	1	Noble	3
Alfalfa	11	Nowata	4
Atoka	6	Okfuskee	1
Beaver	0	Oklahoma	57
Beckham	9	Okmulgee	4
Blaine	5	Osage	2
Bryan	9	Ottawa	0
Caddo	6	Pawnee	6
Canadian	7	Payne	5
Carter	13	Pittsburg	8
Cherokee	5	Pontotoc	7
Choctaw	7	Pottawatomie	14
*Cleveland	227	Pushmataha	1
Cimarron	0	Roger Mills	1
Coal	1	Rogers	12
Comanche	8	Seminole	4
Cotton	3	Sequoyah	4
Craig	3	Stephens	10
Creek	7	Texas	2
Custer	11	Tillman	10
Dewey	2	Tulsa	7
Delaware	1	Wagoner	3
Ellis	1	Washington	5
Garfield	7	Washita	5
Garvin	14	Woods	2
Grady	11	Woodward	0
Grant	12	**States**	
Greer	6	Alabama	3
Harper	1	Arkansas	6
Harmon	1	Arizona	1
Haskell	4	California	1
Hughes	2	Georgia	1
Jackson	9	Illinois	5
Jefferson	3	Indiana	1
Johnson	3	Iowa	1
Kay	23	Kansas	11
Kingfisher	8	Kentucky	3
Kiowa	20	Maryland	1
Latimer	0	Missouri	2
LeFlore	2	New Jersey	3
Lincoln	17	New Mexico	3
Logan	7	New York	1
Love	0	N. Carolina	1
Major	4	Ohio	1
Marshall	3	Pennsylvania	2
Mayes	1	Tennessee	1
McClain	5	Texas	18
McCurtain	1	W. Virginia	1
McIntosh	1	Washington	1
Murray	8	Not stated	5
Muskogee	10	Total	776

*Including many who have temporarily moved to Norman.

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BULLETIN OF THE UNIVERSITY OF OKLAHOMA

NEW SERIES NO. 84 MARCH 1914

THE UNIVERSITY OF OKLAHOMA
QUARTERLY BULLETIN

GENERAL CATALOGUE
1913–1914
WITH ANNOUNCEMENTS FOR 1914-1915

NORMAN, OKLAHOMA
March 1914

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The University of Oklahoma

QUARTERLY BULLETIN

GENERAL CATALOGUE

PUBLISHED QUARTERLY BY THE UNIVERSITY
NORMAN, OKLAHOMA.

1913

SEPTEMBER

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DECEMBER

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1915

JANUARY

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17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	..	..	..	..	..	..

FEBRUARY

S	M	T	W	T	F	S
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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	..	..	..	..	..	..

MARCH

S	M	T	W	T	F	S
..	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	..	..	..

APRIL

S	M	T	W	T	F	S
..	..	..	..	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	..

MAY

S	M	T	W	T	F	S
..	..	..	..	..	..	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	..	..	..	..	..

JUNE

S	M	T	W	T	F	S
..	..	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	..	..	..

JULY

S	M	T	W	T	F	S
..	..	..	..	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	..	..	..	..

1913-14	THE UNIVERSITY YEAR	1914-15
1913		1914
Sept. 23, 24	Entrance examinations. Registration.	Sept. 22, 23
Sept. 25	Class work begins, 8:00 a. m.	Sept. 24
Oct. 1	President's Annual Address, 10:00 a. m.	Sept. 30
Oct. 3	President's reception to Students and Faculty.	Oct. 2
——	General Election.	Nov. 3
Nov. 26	Thanksgiving recess begins, 12:15 p. m.	Nov. 25
Dec. 1	Class work resumed, 8:00 a. m.	Nov. 30
Dec. 19	Christmas recess begins, 5:30 p. m.	Dec. 18
1914		1915
Jan. 5	Class work resumed, 8:00 a. m.	Jan. 4
Feb. 2	Mid-year examinations begin.	Feb. 1
Feb. 6	Annual Faculty Concert, School of Fine Arts, 8:00 p. m.	Feb. 5
Feb. 6, 7	Entrance examinations. Registration, second semester.	Feb. 5, 6
Feb. 9	Class work begins, 8:00 a. m.	Feb. 8
Feb. 22	Washington's Birthday.	Feb. 22
Apr. 9	Easter recess begins, 5:30 p. m.	Apr. 1
Apr. 14	Class work resumed, 8:00 a. m.	Apr. 6
Apr. 25	Interscholastic Track and Field Meet.	Apr. 24
May 4	Final date for submitting finished theses.	May 3
May 30	Memorial Day.	May 30
June 4	Final examinations begin.	June 3
June 7	Baccalaureate Sunday.	June 6
June 8	Commencement recital, 8:30 p. m.	June 7
June 9	Senior class play, 8:30 p. m.	June 8
June 10	Commencement concert, 8:30 p. m.	June 9
June 11	Commencement exercises, 10:30 a. m. Alumni luncheon, 1:00 p. m.	June 10
June 12, 13	Entrance examinations. Registration, summer session.	June 11, 12
June 15	Class work begins, 7:15 a. m.	June 14
July 4	Independence Day.	July 4
Aug. 7	Close of summer session. August convocation, 8:00 p. m.	Aug. 6

NOTE.—The university opens regularly on the fourth Thursday of September and closes on the second Thursday of June.

MEMBERS OF THE STATE BOARD OF EDUCATION

MEMBER EX OFFICIO

Robert H. Wilson . . . . . Chickasha
State Superintendent of Public Instruction

TERMS EXPIRE 1915

Henry C. Potterf . . . . . Ardmore
A. W. Duff . . . . . Mangum

TERMS EXPIRE 1917

Francis B. Fite, M. D. . . . . Muskogee
Frank J. Wikoff . . . . . Oklahoma City

TERMS EXPIRE 1919

M. H. Duncan . . . . . Pauls Valley
B. H. Hester . . . . . Claremore

OFFICERS OF THE BOARD

Robert H. Wilson, President . . . Oklahoma City
Leslie T. Huffman, Secretary . . . Oklahoma City

OFFICERS OF ADMINISTRATION AND INSTRUCTION, 1913-14

President, Vice-President, and Deans

STRATTON DULUTH BROOKS, A. B., Michigan, 1896; A. M., Harvard, 1904; LL. D., Colby, 1912.
President of the University, (1912).

†EDWIN DEBARR, B. S., Michigan Agricultural College, 1891; M. S., 1893; Ph. B., Michigan, 1892; Ph. D., 1899.
Vice-President of the University, Director of the School of Chemical Engineering, Professor of Chemistry, (1892), 1911.

JAMES SHANNON BUCHANAN, B. S., Cumberland University, 1885.
Dean of the College of Arts and Sciences, Professor of History, (1895), 1909.

ALBERT HEALD VAN VLEET, B. S., Wisconsin, 1895; M. A., Ph. D., Leipzig, 1897.
Dean of the Graduate School, Professor of Biology, 1898, (1899), 1909.

JAMES HUSTON FELGAR, A. B., Kansas, 1901; B. S., Armour Institute of Technology, 1905; M. E., 1911.
Dean of the College of Engineering, Professor of Mechanical Engineering, 1906, (1907), 1909.

FREDRIK HOLMBERG, B. M., Bethany College, Lindsborg, Kan., 1899.
Dean of the School of Fine Arts, Professor of Music, 1903, (1907), 1913.

JULIEN CHARLES MONNET, A. B., Iowa, 1892; LL. B., 1893; A. M., 1905; LL. B., Harvard, 1908.
Dean of the School of Law, Professor of Law, (1909).

NOTE:—Members in each group are printed in the order of appointment to that group. The first date following the title is the date of first appointment to the university; the date in parenthesis is the year of appointment to the present rank (professors and associate professors are ranked together); the last date is the year of appointment to the present position.

All addresses are at Norman unless otherwise specified.

†On leave of absence, 1913-14.

CHARLES HOWARD STOCKING, Ph. C., Michigan, 1907; B. S., Michigan, 1909.
Dean of the School of Pharmacy, Professor of Pharmacy, (1912.)

*CURTIS RICHARD DAY, M. D., St. Louis University, 1891; Ph. G., Ohio Institute of Pharmacy, 1906.
Dean of the School of Medicine, Professor of Pathology, Serology, and Clinical Microscopy, 1910, (1913), 1914.
422 State National Bank Building, Oklahoma City.

Professors and Associate Professors

JOSEPH FRANCIS PAXTON, A. B., Missouri, 1891; A. M., Harvard, 1895.
Professor of Greek and Classical Archaeology, (1896), 1906.

†ROY GITTINGER, B. A., Oklahoma, 1902; A. M., Chicago, 1906.
Professor of English History, 1902, (1905), 1910.

JAMES WELLINGS STURGIS, A. B., Michigan, 1896; A. M., 1897; Ph. D., 1910.
Professor of Latin, 1900, (1905).

†SAMUEL WATSON REAVES, B. S., North Carolina, 1899; A. B., Cornell, 1900; A. M., Chicago, 1912.
Professor of Mathematics, (1905).

†SARDIS ROY HADSELL, B. A., Oklahoma, 1904; A. M., Harvard, 1907.
Professor of the English Language, 1904, (1907), 1910.

GUY YANDALL WILLIAMS, B. A., Oklahoma, 1906; M. A., 1910; M. S., Chicago, 1911; Ph. D., Illinois, 1913.
Associate Professor of Chemistry, 1906, (1908).

†HENRY HIGGINS LANE, Ph. B., DePauw, 1899; M. A., Indiana, 1903.
Professor of Zoology, 1906, (1908).

JEROME DOWD, B. A., Trinity College, North Carolina, 1882; M. A., 1896.
Director of the School of Commerce and Industry, Professor of Sociology and Economics, 1907, (1908), 1913.

THEODORE HAMPTON BREWER, B. A., Vanderbilt, 1896; M. A., 1907.
Director of the School of Journalism, Professor of English Literature, (1908), 1913.

LUCILE DORA, A. B., Christian College, 1898; M. A., Hellmuth College, London, Ontario, 1901.
Professor of the Romance Languages and Literatures, (1908), 1910.

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*Associate Professor of Genito-Urinary, Venereal, and Skin Diseases to February 1, 1914.

†On leave of absence, 1914-15.

WALTER LEANDER CAPSHAW, M. D., St. Louis University, 1907.
Professor of Anatomy, (1908).

†LOUIS ALVIN TURLEY, B. S., Idaho, 1903; A. M., Harvard, 1906.
Professor of Histology and Pathology, (1908), 1912.

MONROE ALLEN FLOYD, B. S., A. B., Missouri, 1905; A. M., Chicago, 1913.
Associate Professor of History, (1908).

‡DANIEL WEBSTER OHERN, A. B., Drake University, 1898; A. M., West Virginia, 1899; Ph. D., Johns Hopkins, 1907.
Director, Oklahoma Geological Survey, Special Lecturer on Oklahoma Geology, with rank of Professor, (1908), 1912.

JOHN CHESTER DARLING, B. A., Oklahoma, 1906; M. S., 1908; M. D., Northwestern, 1912.
Physical Director, with rank of Associate Professor, (1908).

HAROLD VEATCH BOZELL, B. S., Kansas, 1908.
Director of the School of Electrical Engineering, Professor of Electrical Engineering, 1908, (1909), 1911.

JOHN HENRY VOSS, A. B., Nebraska, 1902; M. A., Oklahoma, 1911.
Associate Professor of German, 1908, (1909).

HERBERT BANCROFT DWIGHT, B. S., Colorado, 1904.
Professor of Mechanics, 1908, (1909), 1911.

CHARLES HENRY TAYLOR, B. S., Chicago, 1907; M. S., 1909.
Director of the School of Mining Geology, Professor of Geology, (1909), 1912.

WILLIAM PETER HASEMAN, A. B., Indiana, 1903; A. M., 1904; Ph. D., Pennsylvania, 1907.
Professor of Physics, (1909).

ERRETT RAINS NEWBY, B. M., Oklahoma, 1907; B. A., 1908.
Secretary, Registrar, with rank of Professor, 1908, (1909), 1911.

ARCHA KELLY WEST, M. D., Memphis Hospital Medical College, 1894.
Professor of Medicine, (1910), 1911.
306 Majestic Building, Oklahoma City.

*WILLIAM JAMES JOLLY, M. D., Medical College of South Carolina, 1882.
Professor of Surgery, (1910), 1912.
225 Lee Building, Oklahoma City.

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†On leave of absence, 1914-15.

‡Resigned as Director, January 1, 1914.

*Acting Dean of the School of Medicine to February 1, 1914. Resigned professorship February 3, 1914.

ROBERT MAYBURN HOWARD, M. D., Michigan, 1901.
Associate Professor of Surgery, (1910), 1913.
603 Security Building, Oklahoma City.

EDMUND SHEPPARD FERGUSON, M. D., Detroit College of Medicine, 1895.
Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff, (1910), 1911.
612 State Bank Building, Oklahoma City.

*JOHN WILLIAM RILEY, M. D., University of Buffalo, 1901.
Professor of Genito-Urinary Surgery, (1910), 1914.
119 W. Fifth Street, Oklahoma City.

HORACE REED, M. D., Missouri, 1901.
Associate Professor of Surgery, (1910), 1913.
622-23 State Bank Building, Oklahoma City.

STEPHEN MELVIL BARRETT, B. S., Drury, 1904; A. M., 1909.
Professor of Education, (1910), 1913.

HENRY HUBBARD FOSTER, A. B., Cornell, 1899; LL. B., Harvard, 1908.
Professor of Law, (1910).

JOHN BEGG CHEADLE, A. B., Kansas, 1898; LL. B., 1902.
Professor of Law, 1909, (1911).

VICTOR HENRY KULP, Ph. B., Chicago, 1905; J. D., 1908.
Professor of Law, (1911).

JOHN ALLEY, A. B., Kingfisher College, 1902; A. B., Harvard, 1908.
Professor of Political Science, (1911).

†ROY TEMPLE HOUSE, A. B., Miami, 1900; A. M., 1903.
Professor of the Germanic Languages and Literatures, (1911).

FREDERICK CHARLES KENT, B. S., Michigan, 1894.
Associate Professor of Mathematics, (1911).

JOHN ARCHER HATCHETT, M. D., Missouri Medical College, St. Louis, 1884.
Professor of Obstetrics and Gynecology, (1911), 1913.
El Reno, Oklahoma.

JAMES IRWIN TUCKER, B. S., Tufts, 1901; LL. B., Boston Evening Law School, 1909.
Director of the School of Civil Engineering, Professor of Civil Engineering, (1911), 1913.

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*Associate Professor of Surgery to February 1, 1914.
†On leave of absence, 1914-15.

Irving Perrine, A. B., Cornell, 1907; A. M., 1911; Ph. D., 1912.
Professor of Stratigraphic Geology and Paleontology, (1912).

Abraham Lincoln Blesh, M. D., Northwestern, 1889.
Associate Professor of Surgery, (1912), 1913.
606-10 State Bank Building, Oklahoma City.

Lauren Haynes Buxton, M. D., Vermont, 1884; LL. D., Central University, Pella, Iowa, 1907.
Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff, (1912).
Colcord Building, Oklahoma City.

Gayfree Ellison, B. S., Bethany College, 1898; M. D., Rush Medical College, 1903.
Professor of Bacteriology, 1910, (1912).

Andrew Clarkson Parsons, A. B., Nebraska, 1903.
Professor of Secondary Education, High School Inspector, (1912).

Warren Waverley Phelan, A. B., Columbia, 1894; A. M., 1896; Ph. D., George Washington University, 1905.
Director of the School of Education, Professor of Psychology and Education, (1912), 1913.

Warren Abner Seavey, A. B., Harvard, 1902; LL. B., 1904.
Professor of Law, (1912).

Louis Cogswell, Graduate, University of Michigan School of Music, 1911.
Associate Professor of Voice, (1913).

Edward Francis Davis, M. D., Miami Medical College, University of Cincinnati, 1902.
Associate Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff, 1911, (1913).
616-17 Colcord Building, Oklahoma City.

Eva Ellsworth Dungan, Cornell College, Iowa; Berlin: Paris.
Associate Professor of Piano and Public School Music, 1911, (1913).

Charles Francois Giard, Graduate New England Conservatory of Music, 1905.
Associate Professor of Piano and Theory of Music, 1912, (1913).

John Smith Hartford, M. D., Kansas City Medical College, 1901.
Associate Professor of Gynecology, Chief of Dispensary Staff, and Attending Gynecologist, 1910, (1913).
603 Security Building, Oklahoma City.

George Althouse LaMotte, B. L., Missouri Valley College, Marshall, Mo., 1897; M. D., Jefferson Medical College, Philadelphia, 1901.
Associate Professor of Medicine, 1910, (1913).
518 Colcord Building, Oklahoma City.

Lewis Jefferson Moorman, B. S., Georgetown College, Kentucky, 1898; M. D., Hospital College of Medicine (Central University), Louisville, Kentucky, 1901.
Associate Professor of Medicine, 1910, (1913).
622-23 State Bank Building, Oklahoma City.

†Merle Edelweiss Newby, B. M., Oklahoma, 1906; B. A., 1912.
Associate Professor of Violin, 1906, (1913).

Leonard Blaine Nice, Ph. B., Ohio, 1908; Ph. D., Clark, 1911.
Professor of Physiology, (1913).

Lea Armistead Riely, A. B., Hanover College, Indiana, 1895; M. D., University of Louisville, 1898; A. M., Hanover College, 1901.
Associate Professor of Medicine, 1910, (1913).
335 American Bank Building, Oklahoma City.

Angelo C. Scott, A. B., Kansas, 1877; A. M., 1880; LL. B., LL. M., Columbian University Law School, 1885.
Director of Extension Lectures, University Extension, with rank of Professor, (1913).

Joseph Whitefield Scroggs, A. B., Lafayette, 1875; D. D., Washburn, 1902; A. M., Lafayette, 1910.
Director of the Department of Public Information and Welfare, University Extension, with rank of Professor, (1913).

Harry Coulter Todd, B. A., Acadia College, Canada, 1897; M. D., Bowdoin, 1900; M. A., Acadia College, Canada, 1907.
Associate Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff, 1912, (1913).
Colcord Building, Oklahoma City.

Antonio DeBord Young, M. D., Barnes Medical College, St. Louis, 1895.
Associate Professor of Nervous and Mental Diseases, 1910, (1913).
634 Security Building, Oklahoma City.

Assistant Professors

Jesse Lee Rader, B. A., Oklahoma, 1908; M. A., 1910.
Librarian, with rank of Assistant Professor, 1908, (1909).

Lloyd Burgess Curtis, B. S., Oklahoma, 1908; B. S., in Electrical Engineering, 1910.
Assistant Professor of Spanish, Band Instructor, 1908, (1911).

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†Resigned February 15, 1914,

*Robert Peyton Calvert, B. A., Oklahoma, 1909; M. A., 1910; M. S., Chicago, 1911.
Assistant Professor of Chemistry, (1911).

Louisa Brooke, B. A., Vassar, 1907.
Assistant Professor of English, Adviser of Women, 1909, (1911), 1912.

Howard Storm Browne, B. A., Oklahoma, 1911; Ph. C., 1912; M. S., 1913.
Assistant Professor of Pharmacy, 1911, (1912).

Arthur Barto Adams, A. B., South Carolina, 1910; M. A., Columbia, 1912.
Assistant Professor of Economics, (1913).

William Aitkenhead, B. S., Purdue, 1902; M. A., Oklahoma, 1913.
Assistant Professor of Mechanical Engineering, 1909, (1913).

William Richard Bevan, M. D., St. Louis University, 1906.
Assistant Professor of Obstetrics, 1910, (1913).
513-15 State Bank Building, Oklahoma City.

Samuel Robert Cunningham, M. D., Medical College of Indiana, Indianapolis, 1899.
Assistant Professor of Gynecology, Attending Gynecologist, Dispensary Staff, 1910, (1913).
306 Majestic Building, Oklahoma City.

Richard Leland Fosier, A. B., Hartford College, 1891; A. M., 1897; M. D., Hospital Medical College, Louisville, Kentucky, 1900.
Assistant Professor of Medicine, 1912, (1913).
303 American Bank Building, Oklahoma City.

Patricio Gimeno, B. A., Academy of Art, Valencia, Spain, 1883.
Assistant Professor of Art, Instructor in Italian, 1911, (1913).

Charles Earnest Hamner, M. D., Tulane University, 1911.
Assistant Professor of Bacteriology, (1913).

Robert Lord Hull, A. B., Bowdoin, 1897; M. D., Jefferson Medical College, Philadelphia, 1902.
Assistant Professor of Orthopedic Surgery, 1911, (1913).
432-34 American Bank Building, Oklahoma City.

John Frederick Kuhn, Ph. G., Illinois, 1893; M. D., Georgetown University, 1901.
Assistant Professor of Surgery, 1912, (1913).
619-20 State Bank Building, Oklahoma City.

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*On leave of absence, 1913-1914.

JOSEPH THOMAS MARTIN, A. B., St. Mary's College, Kansas, 1903; A. M., 1906; M. D., St. Louis University, 1907.
Assistant Professor of Children's Diseases, Attending Pediatrist, Dispensary Staff, 1911, (1913).
318 E. Fourth Street, Oklahoma City.

JOSEPH FIFE MESSENBAUGH, M. D., Missouri Medical College, St. Louis, 1898.
Assistant Professor of Children's Diseases, 1910, (1913).
519 Colcord Building, Oklahoma City.

LESTER WILLIAM WALLACE MORROW, M. E., Cornell, 1911.
Assistant Professor of Electrical Engineering, (1913).

EDGAR ELMER RICE, A. B., American Normal College, Logansport, Ind., 1891; M. D., Hospital College of Medicine (Now University of Louisville), Louisville, Ky., 1896.
Assistant Professor of Gynecology, 1911, (1913).
Shawnee, Oklahoma.

MILLINGTON SMITH, M. D., Missouri Medical College, St. Louis, 1881.
Assistant Professor of Surgery, 1910, (1913).
319 Colcord Building, Oklahoma City.

RALPH VERNON SMITH, M. D., Washington University, St. Louis, 1898.
Assistant Professor of Surgery, 1911, (1913).
Guthrie, Oklahoma.

FRANK BRUNER SORGATZ, M. D., Northwestern, 1907.
Assistant Professor of Medicine, Attending Physician, Dispensary Staff, 1911, (1913).
419 Insurance Building, Oklahoma City.

BURTON FRANK TANNER, B. L., Dakota Wesleyan University, 1908; Graduate, Cumnock School of Oratory, Northwestern University, 1912.
Assistant Professor of Public Speaking, 1912, (1913).

WILLIAM MERRITT TAYLOR, B. S., Kentucky Wesleyan College, Winchester, Ky., 1894; M. D., University and Bellevue Hospital Medical College, New York City, 1898.
Assistant Professor of Children's Diseases, 1911, (1913).
509-12 State Bank Building, Oklahoma City.

CURT OTTO VON WEDEL, JR., M. D., University and Bellevue Hospital Medical College, New York, 1907.
Assistant Professor of Surgery, Attending Surgeon, Dispensary Staff, 1912, (1913).
720 N. Robinson, Oklahoma City.

*Everett Samuel Lain, M. D., Vanderbilt, 1900.
Assistant Professor of Dermatology, Electro-Therapy, and Radiography, 1912, (1913), 1914.
707 State Bank Building, Oklahoma City.

Robert Elmore Looney, M. D., University of Nashville, 1902.
Assistant Professor of Obstetrics, 1910, (1913).
612 American Bank Building, Oklahoma City.

Leigh Festus Watson, Ph. G., Virginia School of Pharmacy, 1902; M. D., Medical College of Virginia, 1906.
Assistant Professor of Surgery, 1911, (1913).
611 Colcord Building, Oklahoma City.

Arthur Weaver White, B. A., Monmouth College, 1898; M. D., Rush Medical College, 1902; A. M., Monmouth College, 1908.
Assistant Professor of Medicine, 1912, (1913).
400 Colcord Building, Oklahoma City.

Arthur Anderson Will, M. D., Albany Medical College, 1900.
Assistant Professor of Rectal Surgery, 1912, (1913).
400 Colcord Building, Oklahoma City.

†William Jones Wallace, Ph. C., 1900; M. D., 1901, University of the South, Nashville, Tennessee.
Assistant Professor of Genito-Urinary Diseases, (1914).
203 American National Bank Building, Oklahoma City.

Instructors

Benjamin Gilbert Owen.
Assistant Director of Physical Training and Coach, with rank of Instructor, 1905, (1908).

John Mosby Alford, M. D., Tulane, 1895.
Anaesthetist, University Hospital, with rank of Instructor, (1911), 1913.
504 Colcord Building, Oklahoma City.

Annette Bourbon Cowles, R. N.
Superintendent of the Hospital, with rank of Instructor, (1911).
325 E. Fourth Street, Oklahoma City.

Lewis Spencer Salter, B. M., Oklahoma, 1912.
Instructor in Piano and Theory of Music, (1911), 1913.

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*Assistant Professor of Electro-Therapy and Radiography to February 1, 1914.

†From February 9, 1914.

FLOYD JACKSON BOLEND, Ph. C., University of Oklahoma, 1901; M. D., College of Physicians and Surgeons, St. Louis, 1906.
Attending Pediatrist, Dispensary Staff, with rank of Instructor, (1912).
304-5-6-7 Security Building, Oklahoma City.

REX GEORGE BOLEND, B. S., University of Illinois, 1909; M. D., University of St. Louis, 1911.
Attending Physician, Dispensary Staff, with rank of Instructor, (1912), 1913.
611 Security Building, Oklahoma City.

THOMAS CRAIG BURNS, M. D., Union College, Albany, New York, 1908.
Instructor in Nervous Diseases, Attending Physician, Dispensary Staff, (1912), 1913.
Security Building, Oklahoma City.

CHARLES DUNCAN FERGUSON, M. B., University of Toronto, Canada, 1901.
Attending Physician, Department of Eye, Ear, Nose and Throat Diseases, Dispensary Staff, with rank of Instructor, (1912).
612 State Bank Building, Oklahoma City.

WILLIAM ALONZO FOWLER, L. I., Peabody College for Teachers, Nashville, Tennessee, 1905; M. D., University of Nashville, 1908.
Attending Physician, Department of Obstetrics, Dispensary Staff, Director of the Out-Patient Department, with rank of Instructor, (1912), 1913.
225 Lee Building, Oklahoma City.

*ANDREW MERRIMAN YOUNG, M. D., Vanderbilt, 1909.
Instructor in Obstetrics, Attending Physician, Dispensary Staff, (1912), 1914.
319 Colcord Building, Oklahoma City.

MARTHA EGGLESTON ZIMMERMAN, R. N.
Assistant Superintendent of the Hospital, with rank of Instructor, (1912).
325 E. Fourth Street, Oklahoma City.

LAWRENCE NELSON MORGAN, B. A., North Carolina, 1912.
Instructor in English, (1912).

EARLE SELLERS PORTER, B. A., Oklahoma, 1911; M. A., 1912.
Instructor in Chemistry, 1909, (1912).

AGNES MARY BERRIGAN, B. A., M. A., Oklahoma, 1913.
Assistant in Department of University Extension, with rank of Instructor, (1913).

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*Attending Physician, Dispensary Staff, to February 1, 1914.

CYRIL EBERT CLYMER, M. D., St. Louis, 1910.
Attending Surgeon, Dispensary Staff, with rank of Instructor, (1913).

CASRIEL J. FISHMAN, PH. C., Michigan, 1902; B. S., 1906; M. D., Rush Medical College, Chicago, 1908.
Instructor in Clinical Microscopy, 1911, (1913).
325 E. Fourth Street, Oklahoma City.

HAROLD HARVEY HERBERT, A. B., Illinois, 1912.
Instructor in Journalism, (1913).

NELLIE MAY MCGINLEY, Graduate, Art Department Ursuline Academy, Cleveland, Ohio, 1911.
Instructor in China Painting, (1913).

KENNETH POTTER MONROE, B. S., Chicago, 1913.
Instructor in Chemistry, (1913).

RACHEL REVELL, Ph. B., Iowa State College, Grinnell, Iowa, 1904; Graduate of Sargent's School for Physical Education, Cambridge, Massachusetts, 1907.
Instructor in Physical Training, (1913).

GEORGE FREDERICK WILLIAM SCHMIDT, B. M., Oklahoma, 1912.
Instructor in Voice, (1913).

JOSEPH BRADFIELD THOBURN, B. S., Kansas Agricultural College, 1893.
Instructor in History, (1913).

FRANK LLOYD WEAVER, B. C. E., Michigan, 1913.
Instructor in Civil Engineering, (1913).

†PAUL S. CARPENTER, Graduate, Broadstreet Conservatory of Music, Philadelphia, Pennsylvania, 1912.
Instructor in Violin, (1914).

*GEORGE HUNTER, M. D., Louisville Medical College, Louisville, Kentucky, 1904.
Instructor in Obstetrics, (1914).
213 Baltimore Building, Oklahoma City.

‡ALEXANDER WATTS MCCOY, C. E., University of Missouri, 1912; M. A., 1914.
Instructor in Geology, (1914).

‡JOSEPH LESLIE RILEY, A. B., A. M., Georgetown College, Georgetown, Kentucky, 1904.
Instructor in Physics, (1914).

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†From February 15, 1914.
*From February 1, 1914.
‡From February 9, 1914.

Special Lecturers and Special Directors

SAMUEL W. HAYES.
Chief Justice of the Supreme Court.Lecturer on Legal Ethics,(1909).
Lawrence Building, Oklahoma City.

ROBERT LEE WILLIAMS, A. M., LL., D.
Justice of the Supreme Court. Lecturer on the Oklahoma Constitution, (1909).
Lawrence Building, Oklahoma City.

HENRY MARSHALL FURMAN.
Justice of the Criminal Court of Appeals. Lecturer on Criminal Jurisprudence,(1909.)
Lawrence Building, Oklahoma City.

CHARLES B. AMES, A. B., LL. B.
Ex-Supreme Court Commissioner. Lecturer in School of Law,(1909).
512 American Bank Building, Oklahoma City.

MALCOLM E. ROSSER, LL. B.
Ex-Supreme Court Commissioner. Lecturer in School of Law,(1909).
Lawrence Building, Oklahoma City.

WILLIAM ROBINSON MOLINARD, E. E., Johns Hopkins, 1893.
Lecturer on Electrical Railway Engineering, (1913).
Insurance Building, Oklahoma City.

STUART A. COURTIS.
Consulting Director of the Department of Measurement, Efficiency, and Standardization, School of Education, (1913).
82 Eliot Street, Detroit, Michigan.

SAMUEL THOMAS BLEDSOE.
Of the Oklahoma Bar. Lecturer on Indian Land Titles, (1913).
Colcord Building, Oklahoma City.

MATTHEW J. KANE.
Justice of the Supreme Court. Lecturer in the School of Law,(1913).
Lawrence Building, Oklahoma City.

J. H. KEATON, B. S., LL. B.
Ex-Judge District Court. Lecturer in the School of Law, (1913).
Terminal Building, Oklahoma City.

GEORGE WASHINGTON KNOX.
Lecturer in Electrical Railway Engineering, (1913).
Terminal Building, Oklahoma City.

HERBERT DELAVAN MASON, LL. B.
Of the Oklahoma Bar. Lecturer in the School of Law, (1913).
Tulsa, Oklahoma.

JAMES FRANKLIN NOBLE, A. B., Kansas, 1892; LL. B., Northwestern, 1894.
Lecturer in Telephone and Telegraph Engineering, (1913).
Pioneer Building, Oklahoma City.

LLOYD A. ROLAND, A. B., LL. B.
Of the Oklahoma Bar. Lecturer on Oil and Gas Law, (1913).
Bartlesville, Oklahoma.

CHARLES WEST, A. B.
Attorney General. Lecturer in the School of Law, (1913).
Lawrence Building, Oklahoma City.

Fellowships and Scholarships

RANSEL EUGENE ANDREW, A. B., Oklahoma, 1913.
Fellow in Chemistry, (1913).

DAVID ELLERY RENSHAW.
Fellow in Electrical Engineering, (1913).

FRANCIS MARION KIMES, B. S., Tri-State Normal College, Angola, Indiana, 1898; LL. B., Indiana, 1900; B. Ped., Michigan State Normal College, Ypsilanti, Michigan, 1907.
Fellow in Education,(1913).

EDGAR WAYNE FIELDING.
Scholarship in Chemistry, (1913).

ADDIE MALOY.
Scholarship in Physics, (1913).

DAVID HOGAN MARKHAM.
Scholarship in Chemistry, (1913).

CLARENCE VANBUREN NICHOLS.
Scholarship in Pharmacy, (1913).

HERBERT VICTOR LOUIS SAPPER.
Scholarship in Pathology, (1913).

LUTHER HERMAN WHITE.
Scholarship in Geology, (1913).

Business Officers and Assistants

MORRIS MYERS, B. A., Oklahoma, 1911; M. A., 1912.
Analyst, Pure Food Laboratory, (1911).

THOMAS BELL WINNINGHAM.
Clerk, Medical School, Oklahoma City, (1911).
317 E. Fourth Street, Oklahoma City.

JOSIAH LAWRENCE LINDSEY.
Financial Clerk, (1912).

GRADY KIRBY.
Assistant Registrar, (1913).

EDWARD KITCHELL WITCHER, B. A., Illinois, 1912.
Secretary, Student Employment Bureau, (1913).

EDMUND BERRIGAN.
Assistant in Department of University Extension, (1913).

Oklahoma Geological Survey

CHARLES WILLIAM SHANNON, A. B., Indiana, 1906; A. M., 1907.
Director, Oklahoma Geological Survey, 1912, (1913).

LUTHER CROCKER SNIDER, A. B., Indiana, 1908; A. M., 1909.
Assistant Director, Oklahoma Geological Survey, 1909, (1913).

LAWRENCE EMORY TROUT, B. A., Oklahoma, 1912; M. A., 1913.
Field Assistant, Oklahoma Geological Survey, (1913).

STANDING COMMITTEES

Council: The president, the vice-president, and the deans.

Admission and Advanced Standing: Professors Williams, Dwight, Holmberg, Cheadle, Nice, Parsons.

Assembly Committee: Professors Monnet, Holmberg, Sturgis.

Athletics: Professors Felgar, Alley, Bozell.

Committee of Audit: Professors Haseman, VanVleet, Perrine.

Eligibility in Athletics: Professors Haseman, Floyd, Cheadle.

Hygiene and Sanitation: Professors Felgar, Ellison, Darling.

Library: Professors Rader, Paxton, Dowd.

Lyceum Council: Professors Holmberg, Dowd, Kulp.

Non-Athletic Organizations: Professors Taylor, Dora, Sturgis, Voss, Seavey.

Oratory and Debate: Professors Tanner, Foster, Scott.

Program: Professors Bozell, Perrine, Cheadle, Haseman.

Recommendations: Professors Phelan, DeBarr, Sturgis.

Bulletin of University Studies: Professors Scroggs, Brewer, Haseman, Tucker, Barrett, Perrine.

University Publications: Professors Brewer, Newby, Paxton.

ENROLLING COMMITTEES

For the Graduate School: Professor Van Vleet and the student's major professor.

For the College of Arts and Sciences: (a) Major students: the major professor. (b) All other students: Professors Buchanan, Haseman, Taylor, Alley, Voss.

For the School of Commerce and Industry: Professor Dowd and the student's major professor.

For the School of Education: Professor Phelan and the student's major professor.

For the School of Fine Arts: Professors Holmberg, Giard, Salter.

For the School of Journalism: Professor Brewer and the student's major professor.

For the School of Law: Professors Monnet, Cheadle, Foster.

For the School of Medicine: Professors Capshaw, Ellison, Nice.

For the School of Pharmacy: Professors Stocking, Browne.

For the College of Engineering: Professors Felgar, Bozell, Tucker.

OFFICIAL ADVISERS

The chairmen of the several enrolling committees and the major professors are the official advisers, and whenever the approval of an adviser is required by the rules, the chairman of the committee concerned, or the major professor, must give such approval.

FACULTY AND STUDENT COUNCILS

Athletic Council. Appointed by the President: Faculty—Professors Felgar, Alley, Bozell; Alumni, Newby. Elected by the Athletic Association: Faculty—Professor Lane; Students—Messrs. Claude Reeds, William Clark, Curry Bell, Elmer Capshaw.

Oratorical Council. Appointed by the President: Faculty—Professors Tanner, Scott. Elected by the Oratorical Association: Faculty—Professors Phelan, Monnet; Students—Two from each of the literary societies of the university.

GENERAL INFORMATION

GENERAL INFORMATION

THE UNIVERSITY AND THE STATE

The University of Oklahoma is a part of the public educational system of the state. The governing body of the institution is the State Board of Education, consisting of the Superintendent of Public Instruction and six members appointed by the Governor. In accordance with the laws of Oklahoma, the university provides an opportunity to continue the work that is begun in the public schools, and furnishes, without charge for tuition, facilities for academic training and for thorough professional study. The university realizes the necessity of fitting into the public school system of the state; this is shown by its attitude toward the requirements for admission. A graduate of any four-year high school that maintains certain standards, is admitted without examination to freshman standing. In order to take advantage of this plan of admission, high schools are adjusting their work as rapidily as possible to conform to these standards. Provision has been made by the board for visiting schools, and for giving them such suggestions and assistance in the matter of correlation as they desire. A detailed statement of the requirements for the affiliation, or the recognition, of high schools, as well as of the requirements for the admission of students, may be found under the head of "Admission."

Apart from this close connection with the public schools, it is the purpose of the University of Oklahoma to reach general readers and investigators throughout Oklahoma. It is able to serve the general public chiefly through University Extension, which is described under the proper head. So far as possible, however, all its equipment is made useful to the people of the state at large. The Summer Session has been organized to open the doors of the university to students who are unable to attend during the school year.

Beyond its directly educational work the University of Oklahoma stands as the concrete expression of the intellectual activity of the state, engaged in doing its part in extending the field of knowledge, especially in such directions as may be of the greatest and most obvious benefit to mankind. Thus by the action of the Legislature it is called upon to do such research work in its laboratories in connection with the Pure Food and Health Commissions as will best aid

these bodies in protecting the health of our citizens and in carrying on the warfare against disease. Also, by locating the offices of the Geological Survey here, the Legislature manifestly intended to use the facilities of the university for research in such a way as to aid in the development of the mineral resources of the state. These modest beginnings must be accepted as indications of what will become a very large and important work.

ORGANIZATION OF THE UNIVERSITY

Colleges and Schools

The University of Oklahoma comprises the following colleges and schools:

The Graduate School.
The College of Arts and Sciences, including
- The School of Commerce and Industry.
- The School of Education.
- The School of Journalism.

The School of Fine Arts.
The School of Law.
The School of Medicine, including
- The Training School for Nurses.

The School of Pharmacy.
The College of Engineering, including
- The School of Chemical Engineering.
- The School of Civil Engineering.
- The School of Electrical Engineering.
- The School of Mechanical Engineering.
- The School of Mining Geology.

The Graduate School offers advanced work leading to the degree of Master of Arts, Master of Science, and the higher degrees in engineering.

The College of Arts and Sciences offers:

a. Four years' work largely elective, in classical, literary, and scientific studies, leading to the degree of Bachelor of Arts.

b. Four years' work, part of which is given in the School of Medicine, leading to the degree of Bachelor of Science.

The School of Fine Arts offers:

a. Four years' work in theory of music, in piano, in voice, and in violin, leading to the degree of Bachelor of Music.

b. Four years' work in drawing and painting.

c. Courses in expression and dramatic art.

d. Courses in violoncello, cornet and other brass instruments, and in watercolor and china painting.

e. Graduate courses in piano, voice, and violin for those who de-

sire to make public performances and repertoire a specialty. No degree is offered for this work.

f. Preparatory work in piano, in voice, and in violin.

The School of Law offers three years' work leading to the degree of Bachelor of Laws.

The School of Medicine offers four years' work leading to the degree of Doctor of Medicine. The School of Medicine offers also three years' work in the Training School in the University Hospital, leading to a diploma and the title of Graduate Nurse.

The School of Pharmacy offers two years' work leading to the degree of Graduate in Pharmacy, three years' work leading to the degree Pharmaceutical Chemist, and four years' work leading to the degree of Bachelor of Science in Pharmacy.

The College of Engineering offers four years' work in mechanical, electrical, civil, and chemical engineering, leading to the degree of Bachelor of Science in mechanical, electrical, civil, or chemical engineering; and four years' work leading to the degree of Bachelor of Science in mining geology.

Faculties

Each college or separate school has a special faculty presided over by a dean. The general faculty consists of the president, the vice-president, the deans, all professors, associate professors, assistant professors, lecturers, and instructors, and the registrar and librarian.

HISTORY

The University of Oklahoma is founded upon the authority of an act of the legislature of the Territory of Oklahoma, entitled, "An act to locate and establish the University of Oklahoma." The act provided that when ten thousand dollars and forty acres of land should be given to the territory by the City of Norman the school should be located at that place. These requirements having been met, the University of Oklahoma was established at Norman in 1892.

The law states the scope and purpose of the school as follows:

"(6787) Sec. 9. The object of the University of Oklahoma shall be to provide the means of acquiring a thorough knowledge of the various branches of learning connected with scientific, industrial, and professional pursuits, in the instruction and training of persons in the theory and art of teaching, and also the fundamental laws of the United States and this territory in what regards the rights and duties of citizens.

"(6788) Sec. 10. The college department of arts shall embrace courses of instruction in mathematical, physical, and natural sciences

with their applications to the industrial arts, such as agriculture, mechanics, engineering, mining and metallurgy, manufactures, architecture, and commerce, and such branches included in the college of letters as shall be necessary to proper fitness of pupils in the scientific and practical courses of their chosen pursuits, and in military tactics; and in the normal department the proper instruction and learning in the theory and art of teaching in the common schools; and as soon as the income of the university will allow, in such order as the wants of the public shall seem to require, the said courses in the sciences and their application to the practical arts shall be expanded into distinct colleges of arts, and shall embrace a liberal course of instruction in languages, literature, and philosophy, together with such courses or parts of courses in the college of arts as the regents of the university shall prescribe.

"(6789) Sec. 11. The university shall be open to female as well as to male students, under such regulations and restrictions as the board of regents may deem proper, and all able-bodied male students of the university in whatever college may receive instruction and discipline in military tactics, the requisite arms for which shall be furnished by the territory."

The first legislature of the state, in 1907, adopted the territorial law in the provisions quoted above, with such additions and changes in details as seemed necessary at the time.

The university accepted students for the first time in the fall of 1892. In the spring of 1893, work was begun on the first building which was occupied the following September. During the first years it was a university in name only; a very large majority of the students were members of the lower classes of the preparatory school.

Colleges and schools have developed in the following order:—

The College of Arts and Sciences, 1893; the School of Pharmacy, two-year plan, 1893, four-year plan, 1908, three year plan, 1914; Graduate work, 1899, the Graduate School organized separately, 1909; the School of Medicine, first two years' work, 1900, third and fourth years, 1910; the School of Fine Arts, 1903; the School of Applied Science and the School of Mines, 1904, reorganized as the College of Engineering, 1909; the Summer Session, 1908; the School of Law, 1909; the School of Education, 1909; Training School for Nurses, 1912; School of Commerce and Industry, 1913; School of Journalism, 1913.

The first class was graduated from the School of Pharmacy in 1896; the first degrees were granted by the College of Arts and Sciences in 1898; the first master's degree was granted in 1900; the first degree was granted by the School of Fine Arts in 1905; the first in Engineering, in 1908; the first for the four-year course in phar-

macy, in 1910; the first by the School of Law, in 1910; the first by the School of Medicine, in 1910; the first nurses diploma, in 1913.

David Ross Boyd was president of the university from 1892 to 1908. Arthur Grant Evans was president of the university from 1908 to 1911. Julien Charles Monnet was acting-president during the school year 1911-12. Stratton Duluth Brooks became president of the university on May 1, 1912.

SUPPORT

The University of Oklahoma is supported from the general revenue of the state and from the income received from lands set aside by Congress out of the public domain as an endowment for the state schools.

The revenue for the period beginning July 1, 1913 and ending June 30, 1914, is as follows:

For Support and Maintenance

	1913-1914	1914-1915
General appropriation	$150,000.00	$160,000.00
From section 13	33,750.00	33,750.00
From new college lands	19,000.00	19,500.00
From the university section	3,663.00	2,400.00

For Special Purposes

For university extension	7,500.00	7,500.00
For repairs of buildings and grounds	13,950.00	
For heating and power plant	35,000.00	
Total	262,863.00	223,150.00

The endowment in land was made by Congress in two grants: Section 13 in each township in what is known as the Cherokee Outlet and in the Kiowa, Comanche, and Wichita reservations, opened for settlement in 1901, was reserved for the university, normal schools, preparatory schools, and agricultural college. The lands so reserved are leased for the benefit of the schools named. In addition to Section 13, the enabling act, approved June 16, 1906, granted to the university 250,000 acres of land to be taken from any public lands within the state, remaining unfiled as homesteads on that date.

The legislature of 1909 provided for the sale of the second class of lands, the proceeds of such sale to be set aside for the university. The total value of land endowment and the proceeds from the sale of school lands is estimated at $3,670,000.

GROUNDS

The University of Oklahoma occupies a campus of sixty acres. This includes, in addition to the original grounds, twenty acres of land

adjoining, given by the people of Norman in 1902. The whole campus, however, comprises seven hundred acres of land; for Congress, in 1907, granted the school section lying a half mile to the westward for university purposes. The foresight of the early administration of the university provided for the planting of an abundance of trees, which have now grown to such proportions as to increase the natural beauty of the location.

On the east side of the campus is the athletic field, known as Boyd Field. It contains a quarter-mile running track, two gridirons, and two baseball diamonds. Alongside the field is a grandstand with seating capacity for three thousand people. The entire field is enclosed by a permanent hedge.

BUILDINGS

The first building, completed in 1893, was destroyed by fire in January, 1903. Old University Hall, completed in March, 1903, was destroyed by fire in December, 1907. Science Hall, and the Carnegie Library were erected in 1904. The later buildings are planned in accordance with a systematic scheme for landscape and design.

University Hall

University Hall, completed in 1912, is a handsome structure of stone and brick, in the collegiate Gothic style. Its dimensions are 197 feet by 71 1-2 feet. It is fireproof throughout. It contains the offices of administration as well as a large number of class rooms. It stands almost on the site of the University Hall which was destroyed by fire in 1907.

Science Hall

Science Hall is a three-story building 63 feet by 125 feet, built of gray pressed brick, with limestone trimmings. This building was first used in September, 1904. The laboratories and recitation rooms for chemistry, pharmacy, pathology, geology, physiology, bacteriology, and botany are in Science Hall. The laboratories of the State Pure Food and Health Commissions are also located in this building.

Library

The library building is a gift from Andrew Carnegie. It is built of gray pressed brick, and there are two stories and the basement. The general reading room, the offices, and the stack room are on the first floor. On the second floor is a large room used for general meetings. In the basement are special reading rooms, the offices of the Extension Department, and the offices of the State Geological Survey.

Engineering Building

During the session of 1909-1910, a substantial building was erected for the College of Engineering. While the ultimate design for this building is that it shall be used for the shops, it is so constructed that it makes provision at present for the entire work of the college. The building is brick and stone, two stories high, 160 1-2 feet by 38 feet, with a one-story wing for the foundry, 38 feet, 10 inches by 30 feet, 2 inches. The whole is fire proof. It is adjacent to the university heating and power plant and is supplied with steam and power from this plant for the operation of all machinery in the college. The rooms of the second story give ample accommodations for the engineering library, for recitations, and all work in drafting. The entire west end of the first floor is used for shop work.

Monnet Hall

The new law building, was first occupied at the opening session in September, 1913. It is 128 feet long and 55 feet wide, with additional 14 feet entrance projections on the east and west. It is built in solid Bedford stone, its architectural lines following in the main those of University Hall. It is centrally located, overlooking the oval, and constitutes one of the wings of the permanent group of buildings of which University Hall is the center. It has three stories and a basement, and contains every feature necessary for a modern law school. This building is one of unusual beauty, solidity, and convenience. It is fireproof throughout.

Medical Buildings

The medical building at Norman is situated west of the temporary buildings on the campus. It contains an office and library room; a large room for charts, specimens, and other equipment; a large dissecting room; a preparation room; and a recitation room. The work in Oklahoma City is carried on at 317 East Fourth Street, where recitation rooms, laboratories, and libraries are provided. The University Hospital is located at 325 East Fourth Street, Oklahoma City. It is a modern, thoroughly equipped hospital of sixty beds. The various hospitals and infirmaries of Oklahoma City, with which the School of Medicine is affiliated, are described in full in the special bulletin of the School of Medicine.

Gymnasium

The Gymnasium, built in 1903, is a frame building, 100 feet by 100 feet, divided into eight rooms. The main class room is 40 feet by 60 feet and 20 feet high, with a gallery seating 200 people; it is equipped with apparatus for drills, and for class and individual exercises.

Locker rooms for men and for women, containing in all 509 steel lockers, and hot and cold shower and spray baths, are provided. The wings, for lockers, are 16 feet by 80 feet.

Journalism Building

The School of Journalism is located in a frame building. There is a class room, laboratory, and office, and adjacent thereto, the university print shop.

Temporary Buildings

Besides the buildings mentioned above, there are several smaller frame buildings on the grounds that were erected to relieve the congestion caused by the burning of the main building in 1907.

These are used for the offices of the Young Men's Christian Association, the Young Women's Christian Association, the laboratory in experimental psychology, the museum and work rooms of the State Geological Survey, and for the carpenter shop.

Heating and Power Plant

The buildings, of the university are heated and lighted from a central plant recently built and equipped. This plant is connected by tunnels with the various buildings of the university. It supplies not only heat and light but all power used for the machinery in the various shops and laboratories. It is used also as an experimental plant by the students in mechanical and electrical engineering.

LABORATORIES

The university has the following laboratories, each with well selected apparatus and equipment to which additions are being made each year:

An anatomical laboratory.

Two botanical laboratories.

Several chemical laboratories including those for the State Pure Food and Health Commissions.

A civil engineering laboratory and electrical engineering laboratory.

Three geological laboratories in addition to those maintained for the State Geological Commission.

A mechanical engineering laboratory.

A laboratory for pathology and histology.

A pharmaceutical laboratory.

A photometric laboratory.

A physical laboratory.

A physiological laboratory.

A psychological laboratory.

A zoological laboratory.

COLLECTIONS

The botanical, zoological, and geological collections are excellent. In 1912 the Carroll collection of eggs, birds, animals and shells was purchased with the result that the university now has one of the best zoological collections in the Southwest.

The university owns, or has loaned to it, very valuable collections of historical and ethnological worth. Chief among these is the Alexander Posey collection of Creek Indian pottery and basketry, loaned to the university by Mrs. Minnie H. Posey, widow of the late poet, Alexander Posey. A representative collection of stone implements and other artifacts has been gathered from several sources in the prairie mound region in eastern and southeastern Oklahoma. The university also possesses many manuscripts of very great historical value, to which additions are being rapidly made.

THE LIBRARIES

The General Library is under the control of the Library Committee which is composed of the librarian as chairman, and two other members of the university faculty. It is administered with as few rules as possible, the desire of those in control being to help the greatest number of users possible to what they want and with such restrictions only as may seem necessary. On regular school days the library is open from 7:45 a. m. to 6:00 p. m. and from 7:00 to 10:00 p. m. On Saturday the hours are from 9:00 a. m. to 5:00 p. m.

The library, including departmental collections and government publications which it receives as a government depository, numbers 21,000 volumes. Selection of the books has been made with much care, with the needs of a modern university constantly in view The Dewey Decimal classification is followed. Government publications which may be of immediate use are being catalogued and shelved with the rest of the library according to subjects, a process which will be continued as time permits.

Students and officers of the university may draw out books for home use in accordance with the published regulations. Persons not connected with the university, but known to the librarian, are invited to make use of the books in the reference room of the library. Gifts to the library are gladly received and promptly acknowledged.

Information about the use of the library, catalogue, and various indexes and library aids will be given on request.

The library of the School of Medicine at Oklahoma City contains a small but well selected list of text-books and works of reference. New additions and publications are being added constantly. The reading room is supplied with the leading medical periodicals. The

librarian is constantly in attendance to aid workers in their investigations.

The departmental library of the College of Engineering is situated in the engineering building. It contains books, magazines, and technical literature of value to the engineer.

The departmental library in geology is in Science Hall adjacent to the geological laboratories. It contains the important literature and maps pertaining to geology.

The law library is on the third floor of the law building. The books have been carefully selected. Other installments will be procured from time to time, as it is the purpose of the school to build up rapidly a library that will answer all the purposes of legal study and investigation. Several of the leading law journals are kept constantly on file. A member of the law faculty has general supervision of the reading room and student assistant librarians are in charge to give needed information and maintain order. The library is open during the day and in the evening.

UNIVERSITY PUBLICATIONS

The Bulletin: The Bulletin is the official publication of the university; it appears quarterly, in March, June, September, and December. Its object is to set before the public information about the different departments of the university, and to provide a way for the publishing of departmental reports, papers, theses, and such other matter as the university believes will be helpful to the cause of education in the state.

University Studies: University studies are published at irregular intervals. The publication now known as "University Studies" takes the place of the Research Bulletin which was published from 1909 until 1912.

The News-Letter: The News-Letter is a semi-monthly publication established to give official information concerning the work of the university. It is published from the president's office.

STUDENT PUBLICATIONS

The University Oklahoman: The University Oklahoman is published twice a week by the students of the university.

The Sooner: The Sooner is an annual published by the junior class.

The University Magazine: The University Magazine is published once a month by students of the university.

NON-ATHLETIC ORGANIZATIONS

Debating and Public Speaking Societies, Law Club Courts

There are in the university several societies for public speaking, debating, study of special problems, etc. All non-athletic student organizations that may have relations with the public are under the control of the university. They must on organization present the plan of their proposed undertaking to the Committee on Non-athletic Organizations and receive from the committee a certificate of approval. All organizations under the control of one or more members of the faculty and all literary and debating societies are required to furnish from time to time such information as may be desired by the committee.

The Senate: The Senate was organized in 1897 for practice in debate and parliamentary drill. It is for juniors and seniors only.

The Forum: The Forum was organized in 1898, and incorporated in 1901. It is devoted to literary work and practice in parliamentary principles.

The Websterian: The Websterian society was organized in 1903 for practice in general literary society work. It is associated with the Forum, and admits freshmen to membership.

The Zetalethean: The Zetalethean society was organized in 1904. It is a literary society for the women of the university.

The House of Representatives: The House of Representatives was organized in 1905 to cooperate with the Senate. It admits freshmen and sophomores.

The Sooner Bar: The Sooner Bar is a literary society for law students. It was organized in 1909.

The Philologian: The Philologian Literary Society was organized in 1912. It is a literary society for women students.

The Chancery: The Chancery was organized in 1912 for practice in debating, parliamentary drill and for discussion of questions arising in class room work and in the courts of justice. Its membership is confined to law students.

Club Courts: The Ames, The Monnet, The Foster, and the Williams Club Courts are organizations for the presentation and trial of questions of law. Membership is confined to law students.

General Organizations

The Alumni Association: The Alumni Association was organized by the first graduates of the College of Arts and Sciences in 1898. All graduates of the university are now eligible to membership in the association.

The Student Association: The Student Association of the Uni-

versity of Oklahoma was organized in the spring of 1912. Every student in the University is a member of it. The executive committee of the association, is the Student Council, which is composed of the officers of the association and representives from each of the classes and departments. The aim of the association is to unify the student body, and control all activities not otherwise taken care of and all matters of general student concern.

The Oratorical Association: The Oratorical Association manages the intercollegiate debates and oratorical contests. It is governed by a council composed of faculty and student members.

The Women's Council: The Women's Council, organized in 1912, is composed of one representative from each of the boarding houses and groups of houses in which women students room, and two representatives at large. Its officers are elected at a mass-meeting of all the women students of the university. The function of the council is to serve as a medium of communication between the different groups, and between these groups and the adviser of women, and to confer with the adviser of women on all matters of common interest and concern.

Departmental Clubs

The Pick and Hammer Club: The Pick and Hammer Club was organized in 1906 for the purpose of keeping students in touch with recent geological literature and of giving them an opportunity to present results of field investigations.

The Humanist Club: The Humanist is an English club organized in 1907.

Teutonia: Teutonia is a German club organized in 1907 to give students in the department practice in the German language and familiarity with German literature.

The Chemistry Club: The Chemistry Club was organized in 1908 to stimulate interest in chemistry and to furnish an opportunity for reports on original work.

The Engineers' Club: The Engineers' Club, organized in 1910, includes faculty and student members. It holds meetings once a month, at which specially prepared papers on engineering subjects are read and discussed.

American Institute of Electrical Engineers: The University of Oklahoma branch of the American Institute of Electrical Engineers was organized in 1912. It is an official branch of the parent organization. Its membership is from the students in the School of Electrical Engineering.

The Stockonian Pharmaceutical Club: The Stockonian Pharmaceutical Club was organized in 1913 for the purpose of having dis-

cussions on topics of current pharmaceutical and scientific interest. It is literary in its aims.

The Social Science Club: The Social Science Club, organized in 1913, consists of faculty and student members interested in the study of current political and social problems.

The Edison Club. The Edison Club, organized in 1913, is composed of members selected from the junior and senior classes in the College of Engineering.

Camp Fire Girls: The organization of Camp Fire Girls was established at the University of Oklahoma in 1913. Any girl in the university is eligible to membership.

The Business Opportunity Club: The Business Opportunity Club was organized in 1914. Membership is confined to the students in the School of Commerce and Industry. The purpose of this club is to find out what opportunities there are for graduate students after leaving school. Meetings are held twice a month and lectures are given by prominent business men.

Musical and Dramatic Organizations

Various musical organizations in the School of Fine Arts are described in the bulletin of that school. They include the orchestra, band, glee club for men, glee club for women, choral union, opera cast, and the like. For further information see "Organizations", School of Fine Arts.

The Sooner Dramatic Club: This club dates from the year 1912. It was organized to secure "a more thorough knowledge of the drama, and practice in the dramatic art." It is under the charge of the instructor in expression, and members are selected "for their literary attainments, their character and standing."

The Kanuntaklage Klub, an honorary dramatic society, was organized in 1912.

County Clubs

The students from many of the counties in Oklahoma have organized clubs for the purpose of mutual benefit and of making the university favorably known in their home counties.

Senior Honor Societies

Pe-et: Pe-et is a senior honor organization for men. It was established in 1910. The members each year select ten successors from the junior class, the choice being based chiefly upon scholarship.

The Owl and Triangle: The Owl and Triangle, a senior honor society for women, was organized in 1912. The members are chosen largely because of their scholastic ability. The seniors each year select the eight members from the junior class who rank highest.

Professional Fraternities

The University of Oklahoma has been selected by six of the national professional fraternities as a suitable place for establishing chapters of their organizations.

Phi Delta Phi: Phi Delta Phi is an honorary law fraternity. The local chapter was established in 1912.

Phi Mu Alpha: Phi Mu Alpha is a national musical fraternity for men, frequently known as Sinfonia Fraternity. The local chapter was established in 1912.

Phi Beta Pi: Phi Beta Pi is an honorary medical fraternity. The local chapter was established in 1912.

Sigma Delta Chi: Sigma Delta Chi is a national journalistic fraternity. The local chapter was established in 1913.

Phi Delta Xi: Phi Delta Xi is a national pharmaceutical fraternity. The local chapter was organized in 1913.

Delta Sigma Rho: Delta Sigma Rho is a national debating fraternity. The local chapter was established in 1913. Membership is confined to those who have represented the University of Oklahoma in interscholastic debating and oratorical contests.

Military Organizations

Engineering Corps: Company A, Engineering Corps, Oklahoma National Guard, was established at Norman in May, 1913. Men over 18 years of age are eligible. The present officers of the corps are from the faculty of the Schools of Civil and Mechanical Engineering of the University.

Signal Corps: Field Company A, Signal Corps, Oklahoma National Guard, was established at Norman in June, 1913. This is the only signal corps in the state. Drill is given in wire and wireless telegraphic work in army signaling. The present officers of the corps are from the faculty of the School of Electrical Engineering of the University.

These two military organizations maintain an armory in which drills are held regularly. Considerable out-of-door work is done each year. The organizations are well supplied with suits, arms, field equipment, signaling equipment, and other material which is regularly furnished by the United States Government.

INTERCOLLEGIATE CONTESTS

Intercollegiate Debates: The University of Oklahoma contests annually with neighboring colleges in debate. All contracts and arrangements are made by the council of the Oratorical Association.

In the past the university teams have competed successfully with the universities of Missouri, Kansas, Arkansas, and Colorado.

Intercollegiate Oratorical Contests: The university contests annually with colleges in the state and with colleges in neighboring states.

Intercollegiate Athletic Contests: Intercollegiate contests (subject to conditions regarding membership, team organization, and leave of absence imposed by the faculty), are held each year with other universities and colleges of the Southwest.

THE INTERSCHOLASTIC MEET

The Interscholastic Meet for the high schools was established in the spring of 1905. The contestants are from the various high schools of the state, and the meet takes place every spring on the last Friday and Saturday of April, at Norman, on Boyd Field. The Interscholastic Meet includes track and field contests; a contest in tennis singles; a contest in tennis doubles; a contest for championship in baseball; a musical contest for three scholarships in piano, three in violin, and three in voice; a boys' glee club contest, and a girls' glee club contest; dramatic reading contest; an oratorical contest; an art contest; and contests to decide the championship in the Oklahoma High School Debating League series. Inquiries concerning this meet should be addressed to the Secretary, University of Oklahoma, Norman, Oklahoma.

ATHLETICS

The athletic sports and games of the University of Oklahoma are under the direction of the Athletic Association and the Athletic Council. The association is an organization of students for the encouragement and development of athletic sports. The council is made up of nine members: four students, four members of the faculty, and one alumnus. The four student members and one of the faculty members are elected by the Athletic Association; the alumnus, and the other three faculty members are appointed by the President of the University.

The Athletic Council has full control of all athletic sports, of the athletic grounds, and of all funds and properties of the association. It appoints all delegates to the conferences of any athletic association of which the University of Oklahoma is a member, selects all coaches, and awards all athletic honors. It also decides all questions as to the eligibility of players except those that have to do with scholastic standing, which are decided by the Committee on Eligibility.

The Committee on Eligibility is a committee of three appointed by the President of the University from the members of the faculty. It

administers the regulations as to the number of hours and the class of work that must be carried by students before they are permitted to play on any athletic teams.

General Manager of Athletics

A general manager of athletics, designated by the management of the university, works under the direction and approval of the Athletic Council. He has charge of all business affairs of the council, makes all schedules and contracts with other schools, keeps the records of the teams and players, accompanies the teams from home when necessary, and is charged with the enforcement of all rules of eligibility.

MORAL AND RELIGIOUS TRAINING

Religious exercises, consisting of scripture readings, singing, and prayer, are held once a week in the university assembly. At these exercises a special lecture, oraddress by some noted speaker, is given each week. Although attendance is voluntary, the purpose of cultivating the moral, religious, and social spirit of the university is heartily recognized. Weekly prayer meetings are held by the Christian Associations of the university.

The Christian Associations: The Young Men's and Young Women's Christian Associations are the centers of the religious life of the university, and they are active in all forms of moral and Christian work properly within the scope of such organizations. All students are invited to membership, either active or associate. The Y. M. C. A. holds devotional meetings every Sunday afternoon at 2:30 o'clock. The Y. W. C. A. holds devotional meetings every Monday afternoon at 4:30 o'clock. In addition to these meetings the associations carry on social work, and they aim to become a practical help to the students in their university life. Members meet new students at the trains, aid them in securing suitable rooms and boarding places, hold receptions at the opening of the year and at various other times. The secretary of each association is glad to be helpful on all occasions.

Y. M. C. A. Secretary: The Y. M. C. A. now maintains a permanent general secretary who devotes his time to the work. He acts also as secretary of the students' employment bureau.

City Churches: The churches of Norman extend a cordial invitation to students to join them in their work.

ADVISER OF WOMEN

In June, 1908, the office of dean of women was created. In 1912, this office was superseded by that of the adviser of women. The purpose of the office is to give advice and assistance to the women

students of the university whenever requested, and to provide control and direction if such becomes necessary. It is especially desirable that young women who are away from home influences should have some one to whom they may look for confidential advice with reference to many matters affecting their welfare as women and as students. The adviser of women has jurisdiction over all social matters that concern the welfare of women students. Social affairs are not controlled by specific regulations, but in general women students will not be allowed to participate in functions not approved by the adviser of women.

FEES AND DEPOSITS

Tuition is free in all departments of the university. Students taking private lessons in the School of Fine Arts must pay the fees described below. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

In all laboratory courses students must pay the actual cost of material used. In some courses a fixed charge based upon the estimated cost of material is made and must be paid before beginning the work. In most laboratory courses a laboratory coupon book costing three dollars must be purchased by the student for each course and deposited with the instructor. From this book the cost of materials issued to the student will be taken at the time of issue. Such additional coupon books as may be necessary must be purchased from time to time. Any unused portion of such laboratory coupon books will be refunded in cash at the end of the year, or when the student leaves the university, provided he notifies the financial clerk at the time of departure that he must withdraw; but no such refund will be made after the close of the fiscal year, July 1.

After July 1, 1913, the fixed charges will be as follows:

For late registration	$ 2.00
Anatomy 1 and 4, each	2.00
Anatomy 2	15.00
Materia Medica 4	1.00
Physiology 1	2.00
School of Medicine third year	10.00
School of Medicine fourth year	10.00
Student enterprise ticket	5.00

In the following courses laboratory coupon books must be pur-

chased, one for each course. The cost of these will vary for different students, but will be approximately as follows:

Bacteriology 1, 101, 102, 103, each	$ 5.00
Bacteriology 2, 3, each	3.00
Chemistry 2, 3, 51, 101, 121, 152, 125 each	5.00
Chemistry 1, 4, 5, 102, 103, 104, 105, 106, 107, 108, 122, 123, 124, 126, each	10.00
Embryology	3.00
Geology 102, 103, each	3.00
Histology 1	2.00
Pathology 1, 102, 103, each	3.00
Pharmacology 1	3.00
Pharmacy 1, 2, 3, 5, 7, 8, 9, each	5.00
Physiology 1, 2, 3, 5, 6, 7, each	3.00
Zoology 1, 2, 100, 101, 102, 103, 200, 201, each	3.00
Shop 1, 3, 4, each	3.00
Shop 2	5.00

The fee of $5.00 for a student enterprise ticket will be collected from each student. This ticket entitles the student to admission to lecture course numbers, and to debating, athletic, musical, oratorical, dramatic, and other general university affairs. The payment of this fee is not compulsory but it is expected that each student will purchase the ticket because of the many advantages accruing therefrom, and it is necessary that every student buy one in order to make this plan of supporting student affairs a success. It is hoped, therefore, that the loyalty of the students toward the general interests of the university will be such that there will be no requests for exemption from this payment.

Fine Arts Fees

Tuition is free for all courses offered in the School of Fine Arts except that charges are made for individual lessons as follows.

For preparatory music, two thirty minute lessons a week, $18.00, $27.00, and $36.00 a semester depending on which instructor is chosen.

For applied music (piano, voice, violin) Groups I, II, III, or IV, two thirty minute lessons a week, $18.00, $27.00, and $36.00 a semester depending on which instructor is chosen.

For instruction in band and orchestra instruments, two thirty minute lessons a week, $18.00 a semester.

For water-color or china painting, daily lessons, $27.00 a semester.

For courses in expression, first, second, or third year, two thirty minute lessons a week, $27.00 a semester.

Fees are payable strictly in advance and no lessons will be given

until a receipt from the financial clerk is presented to the instructor.

Fees are not refunded except when a student must discontinue his lessons for unavoidable cause.

Students absent from more than one-third of the lessons for which they are enrolled in applied music or expression will be dropped and no fees will be refunded.

In the courses of drawing and painting, students must pay for their own material.

BOARD AND ROOMS

Board, including furnished rooms, can be had for from $4 to $6 a week. The average cost of living is as low in Norman as in any other town of its size in the state. The general advance in prices, however, so noticeable during the past several years, has increased the cost of living here as elsewhere. While the increase is not serious, it should be borne in mind, for whereas several years ago plain table board could be had for $2.00 a week, it costs now from $3.00 to $4.50. Rooms for two may be secured for $6 to $12 a month.

King Hall, a dormitory for young women, was opened in September, 1910. This is owned and controlled by the Protestant Episcopal Church. Those interested should address the Matron, King Hall, Norman, Oklahoma.

OPPORTUNITIES FOR SELF SUPPORT

There is work to do at the University of Oklahoma and in the town by which students may support themselves wholly or in part while attending school. The university can not promise employment to any one, and it does not encourage young people to enroll who are entirely without resources, but it does assist deserving students who show a willingness to help themselves. The Young Men's and Young Women's Christian Associations are active in helping students, and lists of places where work may be had are furnished the office each term. The Young Men's Christian Association secretary is secretary of the students' employment bureau. Every year students add to their income by their labor outside of school hours; but they rely on their own ability, industry, and character in all cases. Those older in residence and known to be capable have the better opportunity. The business men of Norman and the citizens in general are in sympathy with the young people of the university and favor them whenever possible. Those with trades—stenographers, printers, etc., find work as readily in Norman as they would in any other Oklahoma town of 4,000 inhabitants. Others can get odd jobs to do by the hour. Usually students who must work their way are advised to plan for an extra year in which to finish their course.

SCHOLARSHIPS AND PRIZES

Fellowships and Scholarships: Appointments to fellowships and scholarships are usually made upon the recommendation of the head of the department concerned. Students who have done work in residence at the university are usually chosen for these positions. Fellowships as a rule are awarded to candidates for a graduate degree, while scholarships are given to undergraduate students. The value of the fellowship depends upon the nature and amount of work to be done. For the year 1914-15 the following fellowships and scholarships will be awarded:

Fellowships in chemistry, education, electrical engineering and mathematics. Scholarships in chemistry, geology, pathology, pharmacy, physics, German, and physiology.

The Garber Cup: In May, 1906, Judge M. C. Garber, of Enid, presented to the Forum and Senate debating clubs a trophy cup for excellence in public speaking and parliamentary practice, which is contested for annually.

The Render Medals: Through the courtesy of Samuel P. Render, Esq., of Lawton, the Oratorical Association and the School of Fine Arts are holders of gold medals to be contested for annually.

Debating Prizes: Several small prizes are offered in the preliminaries for intercollegiate debates.

The Butte Debating Prize: Hon. George C. Butte, of Muskogee, has very generously made an offer to the University of Oklahoma to establish a prize of twenty-five dollars to be awarded to the university student receiving first honors in debate. Mr. Butte offers this prize annually for ten years.

American Law Book Company Prize: The American Law Book Company offers to a third year student in the School of Law a prize consisting of the first thirteen volumes of the Cyclopedia of Law and Procedure, to be awarded at the discretion of the law faculty. This prize, valued at $97.00, the faculty has decided to award at the time of graduation to the most meritorious student in the third year class, taking into consideration the entire course. The award is based on grades in examinations, class-room proficiency, ability in logical and succinct statement, interest displayed in club courts and other law school activities, use of the library, and strength of character.

Callaghan & Company Prize: Callaghan & Company, law publishers, of Chicago, offer the Cyclopedic Law Dictionary as an annual prize to the student in the second year law class who attains the highest proficiency and the best general average for the year.

Letzeiser Medal: Through the courtesy of Letzeiser & Co., of Oklahoma City, a gold medal, known as the Letzeiser Medal, is given

each year to the best all-round student in the university. The points considered in making the selection are: scholarship, 40 per cent; general activties, 30 per cent; literary work, 15 per cent; athletics, 15 per cent. The winner is selected by popular vote of the student body.

The Symmes Prize: Mr. Neale Symmes of Stigler offers a prize of $25 in gold annually, to be awarded at the direction of the Department of Public Speaking. The prize for the year 1914 was given for the best peace oration.

Rhodes Scholarship: The Cecil Rhodes Scholarships are of interest to all the colleges of the state. The competitive examinations which are held at the university, are open to all those who are qualified for the scholarship. Each scholarship gives the student 3 years in Oxford, in England, and carries with it a stipend of nearly $1500 a year, which includes the expenses for college life at Oxford and for continental travel during the summers.

Inquiries for further information about scholarships should be addressed to the Registrar of the University of Oklahoma, Norman, Oklahoma.

John Barbour Prizes: Prizes are offered to the senior and junior classes in the School of Pharmacy by John Barbour, a graduate of the school, as follows: Recommendation to membership in the American Pharmaceutical Association, with one year's dues to each of two seniors who receive the highest grades in all courses pursued during their senior year. A leather bound indexed copy of the National Standard Dispensatory to the Junior student who receives the best average grade in all branches.

Examinations for First, Second and Third Grade State Certificates

An examination of candidates for any one of the various grades of state certificates is held at the university the latter part of July.

CERTIFICATES FOR TEACHERS

Teachers' Certificates for Undergraduates Without Examination

The Board of Education has provided that persons who have finished the first two years' work of the university and have had regular courses in psychology and education, may be granted a certificate good for two years, of equal standing with a first grade county certificate, after such certificate has been registered with the county superintendent of the county in which the teacher desires to teach. Such certificate shall not be subject to renewal.

University Degree a Diploma to Teach

The regulations of the State Board of Education provide that graduates of the School of Education who have complied with the

special requirements of the School of Education will be granted a teacher's life certificate valid in the public schools of the state. (See School of Education, College of Arts and Science.)

RAILWAY CONNECTIONS

Norman is easily reached by way of the Santa Fe railway.

The interurban line recently completed furnishing hourly service between Norman, Oklahoma City, El Reno, Edmond, Britton, Yukon, and Moore, also makes it convenient for students living in these towns, or changing cars at Oklahoma City, to reach Norman without delay.

DIRECTIONS FOR NEW STUDENTS

Entrance

New students should first obtain a certificate of admission. The requirements for admission to the several schools, and the several methods of admission, are explained in full under "Admission".

Registration

The periods of registration may be learned from the calendar at the beginning of this publication. Late registration should be avoided. Students may not enroll for full credit at a late date. A fee of $2.00 is charged those who enroll after the regular days of registration.

After a new student has been given a certificate of admission, he should to go to the registration office for matriculation. He should then go to the proper dean, or enrolling committee, and, after consultation, make out the study card, which must be approved by the dean, or, in the case of an advanced student in the College of Arts and Sciences, by the student's major professor.

All women must have their study card approved by the adviser of women before presenting it to the financial clerk.

The study card, after approval, must be filed with the financial clerk, and the prescribed fees must be paid.

Work may be taken in more than one school, subject to the approval of the deans concerned.

No student is permitted to enroll for an excessive amount of work. The limit of hours is at the discretion of the faculty of the school or college in which the student is enrolled. Sixteen hours a week is the standard in the College of Arts and Sciences. The hour, as used in the university, is understood to mean one hour of class work with at least two hours of preparation, or the equivalent, each week, for one semester.

Board and Rooms

Students who desire assistance in finding rooms and board should apply to the Y. M. C. A. Secretary. Women should consult the Adviser of Women.

Change of Studies

A student desiring to drop a study, or take a new one, after the study card has been filed, must present to the dean, or other adviser, a petition for the change. If the petition is approved by the dean and by the instructors concerned, it must be filed in the same manner as the original study card. Blanks for the petition are secured at the registrar's office.

Absence From Recitation

To pursue work properly in the university a student should be present at each meeting of the class. If he is obliged to be absent from any recitation or lecture on account of sickness, or other unavoidable cause, a report should be made promptly to the instructor concerning the reason for the absence. Violation of the above subjects the student to such penalties as may be imposed at the discretion of the several faculties.

Withdrawal

Permission to withdraw from the university before the close of the semester should be secured from the dean and filed with the registrar. Otherwise a certificate of honorable withdrawal or a refund of deposits will not be granted and the student will receive a mark of "F" in all courses.

Physical Training

All students entering the university are expected to take the prescribed work in physical training during the first year. This does not apply, however, to students entering with at least one year's work of college rank, accepted in full by the university.

Planning Work For the Year

Work begun in a subject should ordinarily be carried through the year. This is especially true in courses of an elementary character, and no beginning work in a foreign language is credited toward a degree, or toward the removal of entrance conditions, unless carried satisfactorily through both semesters.

Official Notices

Students should watch the bulletin board for notices. An official notice, properly posted, is considered sufficient information to students of any necessary changes in program or of other changes of a similar nature.

Examinations

An examination at the end of each course of study closes the work to that point.

Reports to Parents and Guardians

At the close of each semester, or whenever deemed advisable, a

report of the student's class standing will be sent to the parent or guardian.

Grades

Students' grades in all courses are filed with the registrar. The grades used ordinarily are "A," meaning excellent; "B,"meaning good; "C," meaning fair; "D," meaning condition; "F," meaning failure.

Conditions and Failures

A student who fails to complete the work of any course, will receive a mark of "failure" or "condition". Such condition may be removed in accordance with the provisions for such removal made by the faculty offering the course. A student who has failed in a required subject must, if possible, register for it the first time it is given. A student failing in any course can not receive credit for it until it has been taken again in class.

Students receiving a mark of failure or condition in more than one-third of the work in which they are enrolled in any semester forfeit their connection with the university. It is within the discretion of the faculty to reinstate such students on proper petition and showing.

THE UNIVERSITY EXTENSION DIVISION

OFFICERS

ANGELO C. SCOTT, A. M., LL. M.
Director Extension Lectures, Extension Classes, and High School Debating.

JOSEPH WHITEFIELD SCROGGS, A. B., D. D.
Director, Departments of Public Discussion, Debate, Correspondence Study, and Public Information and Welfare.

AGNES BERRIGAN, M. A.
Assistant.

EDMUND BERRIGAN.
Assistant.

PURPOSE

University Extension is one of the means by which the modern university endeavors to serve the entire population of the state; it is a link connecting every professor and instructor in the university with the entire citizenship of the state. So its value and merits are not its own as a separate department, but belong to the university as a whole, since there can be no university extension unless there is a university to be extended; and the almost unlimited service which university extension can render keeps pace with the development of the university.

Organization

The University Extension Division of the University of Oklahoma includes six departments:

I. Public Discussion and Debate. This department promotes and assists debating, especially in rural schools and farmers' clubs. Bulletins on important subjects for debate are issued, giving the results of wider reading than is possible to the average citizen. A Debaters' Manual of Parliamentary Practice and Argumentation has been published, also bulletins on "The Initiative and Referendum", "Unicameral Legislatures", "Guaranty of Bank Deposits", "Woman's Suffrage", "Consolidation of Rural Schools", and "Preferential Primaries"; and others are in preparation. Since debate bulletins must give each side a chance to win, their value to the general reader is being

recognized. No other instrumentality gives so complete, impartial, and authoritative information on both sides of important public questions. More than 60,000 of these bulletins have been issued during the year. They have been used by organizations other than debating clubs in Oklahoma, and there has been a considerable demand for them in other states, especially Indiana, North Dakota and Tennesee.

II. Correspondence Study. This department aids those who cannot attend the university to avail themselves of its service. By its means a student may take at least half of a university course while remaining at home and engaging in gainful occupations. Students temporarily compelled to leave the university may keep up with their class in a least a part of their work. By attending the Summer School and supplementing it with correspondence work many students may in time complete a college course. Graduate students may take by correspondence 14 hours of the work required for the master's degree. This will enable many superintendents and principals to advance their education while doing their life work. More than 700 courses are now offered by this department.

III. Public Information and Welfare. This department endeavors to furnish information on all subjects pertaining to the public welfare. In every university there are vast accumulations of knowledge for use in class work and for original research. This department endeavors to make this available to the entire state. The work is usually carried on under various bureaus. The municipal reference bureau gathers and distributes information concerning municipal matters such as water, light, paving, drainage, sanitation, fire protection, cleaning, policing, parks, amusements, and all other matters pertaining to municipal management. A commerical reference bureau gathers information concerning everything pertaining to business,—commerce, manufacturing, markets, methods, inventions, and everything of importance to business men. A legislative reference bureau gathers information needed by legislators and public officials, —laws on all subjects, methods of dealing with various social problems in our own and other lands, etc., thus enabling them to profit by the world's experience. The public health bureau performs a similar service in connection with the public health. The bureau of social center development aids in bringing about harmony and cooperation in communities and in rendering democracy more efficient. These departments are not new institutions; they only enable the state to utilize what it already has. The schools of law, medicine, and engineering are not yet fully utilized.

IV. Extension Lectures. This department furnished lectures,

either single or in courses, on a great variety of subjects. More than 200 lectures have been given during the current year. The university orchestra, glee club, and soloists are available for concerts without charge except expenses. The possibilities of this department for public instruction and inspiration are limited only by the appropriation for it.

V. Extension Classes. This department endeavors to organize wherever there are enough students, regular university classes to do work in the freshman classes of the university though remaining at home. A small amount of state aid would enable this department to establish a great many such classes in many communities of the state. These classes do regular university work for which they receive university credit. Classes have been maintained this year in German, French, Spanish, English, and history.

VI. High School Debating. This differs from the department of Public Discussion and Debate in that high school debating clubs are composed entirely of students. The same debating bulletins are used in both, and briefs, bibliographies, and other information furnished on a constantly increasing number of subjects. This department cooperates with the department of Public Speaking of the university and with the State High School Debating League.

Rural Traveling Libraries

A beginning has been made in sending out libraries which supplement the bulletins on the various subjects treated by them. In order to make them of value to the entire community many other books have been added covering a wide range of information and interest. These libraries are divided into small collections of 12 to 15 books each, and are loaned free of charge to any community or rural school for a period of not exceeding four weeks. To protect the state, each applicant is required to give security for the proper care and safe return of the books.

The most that can be done here is to outline briefly the work of this division. Full particulars will be furnished on application. To save labor and delay all inquirers are requested to address,

UNIVERSITY EXTENSION,
Norman, Oklahoma.

THE OKLAHOMA GEOLOGICAL SURVEY

OFFICERS

CHARLES WILLIAM SHANNON, A. M.
Director.

LUTHER CROCKER SNIDER, A. M.
Field Geologist.

LAURENCE EMORY TROUT, M. A.
Assistant Director.

WILLIAM A. BUTTRAM.
Chemist.

FRANK GAHRTZ
Draftsman.

MISS CHARLIE NICKLE.
Chief Clerk.

GENERAL STATEMENT

The Oklahoma Geological Survey was established in 1908. The law creating it located it at the State University of Oklahoma. The objects and duties of the Survey, as stated in the law establishing it, are:

"First: A study of the geological formations of the State with special reference to its mineral deposits, including coal, oil, gas, asphalt, gypsum, salt, cement, stone, clay, lead, zinc, iron, sand, road building material, water resources and all other mineral resources.

"Second: The preparation and publication of bulletins and reports, accompanied with necessary illustrations, maps, including both general and detailed descriptions of the geological structure and mineral resources of the State.

"Third: The consideration of such other scientific and economic questions as, in the judgment of the commission, shall be deemed of value to the people."

The Survey is by law placed under the direction of a commission known as the State Geological Commission, composed of the Governor, the President of the State University and the State Superintendent of Public Instruction. This commission appoints the director and has control of the work of the Survey.

Offices and Museums

The offices and drafting rooms of the Survey are at present in the basement of the Carnegie Library Building at the university. The laboratories, the museum and the store rooms are located in some of the temporary buildings on the campus.

Bulletins now in Preparation

At the present time the work of the staff and field assistants is centered on the preparation of a bulletin which will discuss fully the oil and gas situation in the state. The report will contain chapters on the geology of Oklahoma, descriptions of developed oil fields and probable new fields. A large number of maps, diagrams, and sections will be included, and several chapters will deal with general subjects relating to oil and gas. It is expected that this will be the most complete publication ever issued by the survey. Other lines of work are being carried on, including the preparation of a bulletin on asphalt in Oklahoma, special attention being given to the value of Oklahoma asphalt in street and road building. A report on mineral waters and the fresh water supply for domestic use in Oklahoma is also in course of preparation.

In addition to the systematic work carried on by the survey, more or less detailed studies are made of several localities with the view of obtaining data relating to local mineral deposits and geology, for the benefit of citizens in the several communities. This work has been done directly for the benefit of the citizens, and written reports submitted; hence no further reports will be made, except as these preliminary investigations furnish material for use in the regular reports.

Educational Work

During the summer of 1912 a new line of work was undertaken by the survey. A study of the trees and shrubs of the state was begun, and a preliminary circular was issued. Much additional data has been secured, and it is expected that within the next year a complete report on the trees and shrubs of Oklahoma will be issued. This report will contain detailed descriptions of all the species found in the state and a large number of illustrations. A bulletin is being prepared on the flowering plants of the state. The field work for this has been in progress for two years, and a large part of the state has been covered, in collecting the material for this report.

Another line of work is a study of the birds of the state. The survey expects to publish a bulletin, adapted for the general public and for use in the schools of the state, which will be of much value in showing the economic value of birds. Other publications will in-

clude reports on the Oklahoma minerals, Oklahoma physiography, and related subjects.

Lectures by Members of Staff

During the past two years various members of the staff in the geological survey have given a number of lectures at the state normal schools, high schools, and before commercial clubs and popular gatherings. In the pursuit of the geological investigations the members of the survey staff readily obtain a large amount of valuable information which, it is believed, no one else in the state is in a position to secure and since this knowledge is in the possession of the state, it should be communicated to the citizens. It is the purpose of these lectures to impart such information to the public.

Mineral Collections for High Schools

Many of the high schools of the state have been supplied with representative mineral collections by the survey. These collections contain about sixty specimens, which are carefully labeled and sent out to the schools of the state, together with the publications of the survey, the only charge to the schools being the cost of transportation. Care is taken in the preparation of these collections, to make them of special value to teachers of physiography and geography.

Co-operative Work With United States Government

Co-operative work with the United States Government is carried on by the staff of the survey for the purpose of making topographic maps, geologic folios, and investigation of various geological problems in the state. The United States Geological Survey is expected to use in these investigations an amount equal to that appropriated by the State of Oklahoma for that particular line of work, but it may be said that the national survey has given much more than its share in carrying this work, and that the people of the state will receive much benefit from this co-operative arrangement. Several publications are in the course of preparation at the government printing office, and will be ready for distribution within a short time. These publications will add materially to the list already available upon the resources of Oklahoma.

List of Publications

Since the establishment of the survey in 1908, field investigations have been carried on practically without interruption. The work of 1908-09-10 has been included in the Director's report for the biennium 1908-10. The work from June, 1910 to June, 1912 is given in detail in the last biennial report issued. Copies of these reports are still avail-

able. An outline of the work done during the past two years will be issued in the forthcoming report.

The list of publications given below shows the scope of the work which has been done by the survey:

Bulletin No. 1. Preliminary Report of the Mineral Resources of Oklahoma.

Bulletin No. 2. Rock Asphalt, Asphaltite, Petroleum and Natural Gas in Oklahoma.

Bulletin No. 3. Geology and Mineral Resources of the Arbuckle Mountains.

Bulletin No. 4. Coal of Oklahoma. (In Press)

Bulletin No. 5. Structural Materials of Oklahoma.

Bulletin No. 6. Director's Report and Brief Chapters on Twenty Oklahoma Minerals.

Bulletin No. 7. Clays and Clay Industries of Oklahoma.

Bulletin No. 8. Road Materials and Road Conditions in Oklahoma.

Bulletin No. 9. Lead and Zinc in Oklahoma.

Bulletin No. 10. Glass Sand in Oklahoma.

Bulletin No. 11. Gypsum in Oklahoma.

Bulletin No. 12. Mineral Waters in Oklahoma. (In preparation.)

Bulletin No. 13. Volcanic Ash in Oklahoma. (In preparation.)

Bulletin No. 14. Asphalt in Oklahoma. (In preparation.)

Bulletin No. 15. Director's Biennial Report to the Governor with Mineral Production of Oklahoma from 1901 to 1911 as part 2.

Bulletin No. 16. Ponca City Oil and Gas Field Report.

Bulletin No. 17. Geology of East-central Oklahoma, with special reference to the occurence of oil and natural gas.

Bulletin No. 18. Cushing Oil Field.

Bulletin No. 19. Director's Biennial Report to the Governor, with Mineral Production of Oklahoma from 1901 to 1914 as Part 2. (In preparation.)

Circular No. 1. Origin, Scope, and Purpose of the Oklahoma Geological Survey. (Edition exhausted.)

Circular No. 2. Brief Statement of the Geological History of Oklahoma.

Circular No. 3. Oklahoma Among the Southern States.

Circular No. 4. Trees and Shrubs of Oklahoma.

Circular No. 5. Rock Asphalt in Oklahoma.

Circular No. 6. Petroleum and Natural Gas in Oklahoma.

ADMISSION

ADMISSION

GENERAL REQUIREMENTS FOR ADMISSION

The work of the several undergraduate schools and colleges of the university is planned to follow the completion of at least four years' preparation in an acceptable high school, or the equivalent, except as provided for in the two-year plan of work of the School of Pharmacy, and in the School for Nurses. The School of Medicine requires in addition a year of college work.

Applicants for admission to the College of Arts and Sciences, the School of Medicine, the College of Engineering, and the School of Fine Arts, must be at least sixteen years of age, but for admission to the School of Pharmacy, and the School for Nurses, applicants must be at least seventeen, and to the School of Law, at least eighteen. No age limit is set for admission as an unclassified or as a preparatory student in music in the School of Fine Arts.

The university is open on equal terms to both sexes.

Admission may be either by examination or by certificate, or by both, and may be either to freshman, to unclassified, or to advanced standing.

ADMISSION BY EXAMINATION

The Committee on Admission will conduct entrance examinations at the university on Friday and Saturday following Commencement in June, on Monday and Tuesday of the opening week of school in September, and on Friday and Saturday preceding the beginning of the class work of the second semester, in such subjects as are called for one week before the date set for the beginning of the examinations. All applicants who do not hold certificates of admission should present themselves for examination. This examination is not open to persons who have already matriculated as students in the university.

ADMISSION BY CERTIFICATE

Applicants may be admitted without examination on presentation of properly indorsed certificates from affiliated schools, or on credentials from other schools of recognized standing.

Graduates of regularly affiliated schools should file their certificates with the registrar at or before matriculation. All other applicants for admission should file their records with the Committee on Admission at least two weeks before the opening of school.

ADMISSION TO FRESHMAN STANDING

Students expecting to enter a professional school should see to it that the subjects they take in high school will prepare them to meet the prescribed entrance requirements to the school chosen.

The requirements for admission to freshman standing are usually stated in units. The unit of entrance credit is the standard amount of work required in a secondary school subject given thirty-six weeks, with five recitation periods a week, of forty-five minutes each, or with four recitation periods of sixty minutes each.

For a subject carried eighteen weeks with five recitation periods a week of forty-five minutes each, one-half unit of credit is given. One-half unit is also given for a subject carried thirty-six weeks with three recitation periods a week of forty-five minutes each.

Fifteen properly selected units of credit secured either by examination, or by certificate from an acceptable school, will admit the student to freshman standing.

REQUIREMENTS FOR ADMISSION TO THE SEVERAL SCHOOLS OF THE UNIVERSITY

The requirements for admission to the several undergraduate schools of the university are given below in units. All work should be chosen from the subjects listed under "Description of Courses Accepted for Admission."

	Arts and Sciences	Engineering	Fine Arts	Law	Medicine	School for Nurses	Pharmacy Three Y's & Four Years	Pharmacy Two Years
English - - - -	3	3	3	3	3	2	3	2
Algebra - - - -	1	1 1-2	1	1	1	1	1	1
Geometry - - - -	1	1 1-2	----	1	1	----	1	----
History - - - -	1	1	1	----	1	1	1	1
One Foreign Lang. -	2	2†	2	----	2††	1††	2††	1††
Physics - - - -	1*	1*	----	----	1	----	1	----
Elective - - - -	6	5	8**	10	6	2	6	2
Total	15	15	15	15	15†††	7	15	7

*Chemistry, one unit; botany, one unit; zoology, one unit; or botany and zoology, one-half unit each, may be substituted.

†German preferred in chemical engineering.

**Three of these units are credited for the technical work in piano or in violin required for admission to the music courses.

††Must be Latin.

†††One year of college credit in addition to the fifteen units is required. See under Admission in School of Medicine.

High school graduates presenting fifteen units, including three of English and two of mathematics, will be admitted to freshman standing. Conditions, if any, in the other required units must be removed before sophmore classification is given. Conditions may be removed in the manner provided below for making up deficiencies, or they may be removed by the completion of equivalent college work. Such college work taken after the completion of fifteen units may be counted as elective hours of college credit.

NOTE.—The term freshman standing is used throughout this section as descriptive of students presenting the requirments for admission to the freshman class of the College of Arts and Sciences, or the minimum requirements for admission to the first year of professional work except in the School of Medicine.

UNCLASSIFIED STUDENTS

Applicants, not candidates for a degree, may be admitted to such work as they are prepared to take. Such applicants for admission must be twenty-one years of age, or must satisfy the requirements for admission to freshman standing, except as provided in the School of Fine Arts.

Applicants presenting at least twelve units, including three of English and two of mathematics, may be admitted to a part of the freshman work in the College of Arts and Sciences, the College of Engineering, or the School of Fine Arts. while they are making up deficiences. Such students are ranked as unclassified students until their deficiencies are made up. All deficiencies must be made up during the first year in residence. Such applicants must be either high school graduates or must be recommended for admission by the authorities of the high school last attended.

Admission as an unclassified student is subject to the approval of the dean of the college or school concerned.

MAKING UP DEFICIENCIES

As stated in the preceding section, applicants deficient in not more than three units may be admitted as unclassified students to the College of Arts and Sciences, the College of Engineering, or the School of Fine Arts. Such students may arrange with the dean at matriculation to make up their deficiencies, either in the high school or with the aid of private tutors, or by the completion of equivalent college work as provided below. The student must be guided in the choice of method by the advice of the dean. The whole number of hours which the student is carrying must not exceed, however, the limit set by the rules governing the amount of work. For every unit of credit not otherwise satisfied at the end of the student's first year in resi-

dence five hours will be deducted permanently from the credit made by him during the year.

This rule is not to be construed so as to relieve the student in any way from the completion of required subjects, and the student's enrollment during the first year must be planned to satisfy all admission requirements. No work may be counted twice, that is, both as a part of fiteen units required for admission and as hours toward a degree.

ADVANCED STANDING FOR WORK DONE IN HIGH SCHOOLS

College credit for work done in the high school in excess of sixteen units will be given only upon examination. In general, application for such credit may be made only by graduates of affiliated high schools who have done work in excess of the requirements for graduation. Such excess work should be certified in detail to the Committee on Admission. Application for advanced standing must be made to the committee at or before matriculation.

In general, college credit for work done in high schools will be given only for advanced courses and will be approximately half of the time given. That is, a student taking a fifth year in the high school cannot expect more than a half year's credit in the university.

ADVANCED STANDING FOR WORK DONE IN NORMAL SCHOOLS

Students who have completed work of college rank in the state normal schools of Oklahoma are admitted to the university with advanced standing in the College of Arts and Sciences, credited at the rate of thirty hours for the full year's work. Such credit will be given only for courses taken after the completion of fifteen standard entrance units. Sixty hours is the maximum amount of credit that will be given to graduates of the normal schools, except that additional credit not to exceed four hours in physical training may be given.

ADVANCED STANDING FOR WORK DONE IN OTHER COLLEGES AND UNIVERSITIES

Students from other schools who have pursued standard college courses equivalent to those of the University of Oklahoma will receive credit for such courses upon presentation of proper certificates of creditable standing and honorable dismissal.

All applications for advanced standing must be filed at or before matriculation. Students coming from approved colleges whose requirements for admission are substantially those of the University of Oklahoma will be admitted ordinarily to equal standing, provided they

enter not later than the beginning of the senior year. The full equivalent of senior work must be completed in residence before a degree will be granted.

Examination for advanced standing may be given to applicants who cannot furnish satisfactory certificates of having taken the work in an approved college. The amount of credit so obtained, and the subjects upon which examination will be given, will be determined by the dean.

ADMISSION TO THE GRADUATE SCHOOL

For admission to graduate standing, see catalogue under the head of the Graduate School.

AFFILIATION OF SCHOOLS

When the authorities of any school desire to affiliate with the university, formal application for inspection should be made to the High School Inspector, University of Oklahoma, Norman, Oklahoma.

It is understood that the high school exists for the training of the greater number who do not go to college, rather than for the smaller number who do go. The courses that constitute the best education for the duties of practical life constitute also the best preparation in general for the college or technical school. The standards set for affiliation are practically those of the North Central Association of Colleges and Secondary Schools, which were made jointly by colleges and high schools. If the pupil is to be credited for admission with high school courses, the courses should be given under conditions that develop as nearly as possible their full educational value. The co-operation of the high schools of the state will be welcomed in shaping the rules of affiliation to conform to the best standards. The educational ideals promoted by the state should be such as to serve the interests of the high school and the university alike.

A high school with a curriculum largely elective is not expected to make specific requirements for graduation to fit the entrance requirements of the several colleges or schools of the university. It is enough for the university to ask that a student be given an opportunity to select such work as will fit him to enter the school of his choice.

Private academies, seminaries, and other secondary schools may be accredited on the same basis as public high schools.

Schools are accredited for one year or longer, but after one year a new inspection and a new accrediting of the high school may be made.

Standards for Accredited Schools

(1) The high school curriculum should cover four school years of

not less than thirty-six weeks each, and should follow an elementary course of not less than eight years in length.

(2) The curriculum should require of each pupil not more than four recitations daily with periods not less than forty minutes in length. Minor subjects not counted toward graduation are not considered.

(3) Schools seeking credit in science, history, and English should possess adequate laboratory and library equipment in those branches.

(4) The school should offer at least fifteen of the standard units accepted by the North Central Association of Colleges and Secondary Schools. These units are named and described on the pages following. Three units of English and two of mathematics should be required for graduation.

(5) Instructors should not conduct more than six recitations daily, and the number of instructors teaching exclusively in the high school should bear the proportion of one to not more than thirty students.

(6) The minimum scholastic attainment of all instructors should be equivalent to graduation from a standard college or university, including special work in the subjects taught. Such requirements, however, are not to be construed as retroactive.

Admission from Accredited Schools

In determining the amount of credit to be granted to any school, each subject will be considered separately. Credit will be granted for such subjects as are taught in accordance with the foregoing requirements by competent teachers who have the use of adequate library and laboratory facilities. Each school therefore may secure credit for part or for all of its work. High schools offering less than four years' work will be accredited for such subjects as are sufficiently well taught to meet the foregoing requirements. Graduates of such schools, however, will need to complete their preparation in other accredited secondary schools, or by correspondence work in the extension division of the university.

The high school inspector will send to the school authorities a list of the units of entrance credit for which the school is accredited and a duplicate list will be filed with the university Committee on Admission. The principal or superintendent will thereafter be asked only to certify to the registrar of the university the particular units that graduates of the high school have completed when they enter the university.

Graduates of high schools that have been inspected and accredited should file their certificates with the registrar at or before matriculation. All other applicants for admission should file their records with the

Committee on Admission at least two weeks before the opening of school.

The accrediting of four years' work means that a high school affords every pupil at graduation the opportunity for freshman standing in the university, if the work has been properly selected.

SUGGESTED FOUR YEAR CURRICULUM

As stated in another section, the high school is not expected to make specific requirements for graduation to fit the entrance requirements of the several schools of the university. The curriculum given below is taken from the manual issued by the State Board of Education in 1912 and is printed here as offering interesting suggestions.

1st Year

English	Algebra	Foreign Language or Ancient History	Phys. Geog. 1-2 Botany 1-2

2nd Year

English	Plane Geom.	Foreign Language, Modern History, Agriculture (two of three)

3rd Year

English	Physics	Foreign Language	Elective

4th Year

Foreign Language	Electives, two subjects	Amer. Hist. and Civics

Either fourth year English, shorthand and typewriting, or physiology is suggested as one of the electives of the fourth year. One half year of algebra in the fourth year is recommended.

Latin and German are recommended as suitable foreign languages.

SUBJECTS ACCEPTED FOR ADMISSION

1, 2, 3, English—College Entrance Requirements . 3
4 Fourth year English . . 1
5 Algebra through Quadratics 1
6 Plane Geometry . . . 1
7a Solid Geometry . . . 1-2
7b Algebra from Quadratics 1-2
(One-half year taken after plane geometry)
7bb The same when taken for one year and before plane geometry . . . 1-2
8a Trigonometry . . . 1-2
8b Advanced Algebra . 1-2
9 Ancient History . . . 1
10 Modern History . . 1
11 English History . 1-2 or 1
12 American History 1-2 or 1
13a Civics 1-2
13b Economics . . . 1-2
14 First year Latin . . 1
15 Caesar—four books . . 1
16 Cicero—six orations . 1
17 Vergil—six books . . 1
18 First year Greek . . . 1
19 Anabasis 1
20 Homer 1
21 First year German . . 1
22 Second year German . 1
23 Third year German . . 1
24 Fourth year German . 1
25 First year French . . 1
26 Second year French . 1
27 Third year French . . 1
28 Fourth year French . . 1
29 First year Spanish . . 1
30 Second year Spanish . 1
31 Physics 1
32 Chemistry 1
33 Physical Geography 1-2 or 1
34 Botany . . . . 1-2 or 1
35 Zoology (one year) . . 1
35a Zoology (one-half year) 1-2
35b Physiology (one - half year) 1-2

OCCUPATIONAL SUBJECTS

(Not more than three units credited.)

36 Manual Training—Shop Work . . . 1-2 or 1
37a Free-Hand Drawing . 1-2
37b Free-Hand Drawing . 1-2
37c Mechanical Drawing . 1-2
38 Domestic Science . 1-2 or 1
39 Agriculture . . 1-2 or 1
40a Commercial Law . . . 1-2
40b Commercial Geography 1-2
41a Arithmetic . . . 1-2
41b Bookkeeping . . . 1-2
42 Shorthand and Typewriting . . 1

In general entrance credits are given only for such subjects as are enumerated in the table of units printed above and described in the following pages. Biology is by definition a half unit of botany and a half unit of zoology, and is so credited. Physical geography may include work in geology.

A unit course covered in one-half year will be given one-half unit of credit only when it is so indicated in the table. For example, botany completed in one-half year will be credited (as No. 34 1-2), while chemistry will not be credited for less than a full unit. A unit of work done in less than the standard time is credited in full only upon examination.

DESCRIPTION OF COURSES ACCEPTED FOR ADMISSION

The outlines in the Oklahoma High School Manual furnish more detailed description of unit courses.

ENGLISH

Three or Four Units

1-3. The three units required in English should cover spelling, pronunciation, grammar, including especially syntax, persistent training in composition, the essential principles of rhetoric, and the reading of the books prescribed by the Joint Committee on Uniform Entrance Requirements in English. For a fuller statement of the character and quality of the work required, see the definitions of English units in the manual issued by the North Central Association.

4. A fourth unit may be given for one full year's additional work in the study of English and American authors.

For affiliated high schools the following plan is suggested:—

First year. Literature, two periods; composition, three periods.

Second year. Literature, two periods; composition and rhetoric, three periods.

Third year. Literature, three periods; composition and rhetoric, two periods.

Fourth year. Literature, four periods; composition and rhetoric, one period.

An outline history of English literature may well be studied as a part of either the third or the fourth year's work. Although the university requires for admission but three years of English, a four-year high school should offer four units. It is recommended that all students who do not take four years of foreign language should take the entire English course. If a plan of work has but three units of English, it is often more convenient to leave out the third year.

The list of books, as arranged by the Joint Committee on Entrance Requirements in English, is divided into two parts, the first consisting of books to be read with attention to their contents rather than to their form, the second consisting of books to be studied thoroughly and minutely.

"With reference to the second list, the Joint Committee recommends that each of the books prescribed for study be taught with re-

ference to subject matter, form, and structure; and that, in addition, attention be given to the essentials of English grammar and to the leading facts in those periods of English literary history to which the prescribed works belong.

"The lists and requirements below are intended to indicate in a general way the extent and character of the required work, and are not to be interpreted as limitations upon the teacher's choice. Books of equal merit, covering a similar range of literary types, will meet the requirements satisfactorily."

"I. Books Prescribed for Reading

With a view to large freedom of choice, the books provided for reading are arranged in the following divisions and groups, from which at least ten units, are to be selected, two from each group:

"For 1913 and 1914:

GROUP I—

The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther

Homer's Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII

Homer's Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI

Vergil's Aeneid

The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

FOR ANY UNIT OF THIS GROUP A UNIT FROM ANY OTHER GROUP MAY BE SUBSTITUTED.

GROUP II—

Shakespeare's Merchant of Venice, Midsummer Night's Dream, As You Like It, Twelfth Night, Henry the Fifth, Julius Caesar.

GROUP III—

Defoe's Robinson Crusoe, Part I

Goldsmith's Vicar of Wakefield

Scott's Ivanhoe, or

Quentin Durward

Hawthorne's House of the Seven Gables

Dickens' David Copperfield, or

Tale of Two Cities

Thackeray's Henry Esmond

Mrs. Gaskell's Cranford

George Eliot's Silas Marner

Stevenson's Treasure Island.

GROUP IV—

Bunyan's Pilgrim's Progress, Part I

The Sir Roger de Coverley Papers in the Spectator

Franklin's Autobiography (condensed)

Irving's Sketch Book

Macaulay's Essay on Lord Clive, and Essay on Warren Hastings

Thackeray's English Humorists

Selections from Lincoln, including at least the two Inaugurals and Lincoln's Speeches in Independence Hall and at Gettysburg, Last Public Address, Letter to Horace Greeley, along with a brief memoir or estimate

Parkman's Oregon Trail

Thoreau's Walden or

Huxley's Autobiography and Selections from Lay Sermons, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk

Stevenson's Inland Voyage, and Travels with a Donkey.

GROUP V—

Palgrave's Golden Treasury (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns

Gray's Elegy in a Country Churchyard, and Goldsmith's Deserted Village

Coleridge's Ancient Mariner, and Lowell's Vision of Sir Launfal

Scott's Lady of the Lake

Byron's Childe Harold, Canto IV, and The Prisoner of Chillon

Palgrave's Golden Treasury (First Series) Book IV, with special attention to Wordsworth, Keats, and Shelley

Poe's Raven

Longfellow's Courtship of Miles Standish, and Whittier's Snow Bound

Macaulay's Lays of Ancient Rome, and Arnold's Sohrab and Rustum

Tennyson's Gareth and Lynette, Lancelot and Elaine, and the Passing of Arthur

Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City.

"For 1915, 1916, 1917, 1918, and 1919:

GROUP I—CLASSICS IN TRANSLATION

The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther

Homer's Odyssey, with the ommission, if desired, of Books, I, II, III, IV V, XV, XVI, XVII

Homer's Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVIII, XXI

Virgil's Aeneid

The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

GROUP II—SHAKESPEARE

Shakespeare's Midsummer-Night's Dream, Merchant of Venice, As You Like It, Twelfth Night, The Tempest, Romeo and Juliet, King John, Richard II, Richard III, Henry V, Coriolanus, Julius Cæsar, Macbeth, Hamlet.

N. B.—The last three only, if not chosen for study.

GROUP III—PROSE FICTION

Malory's Morte d'Arthur (about 100 pages)
Bunyan's Pilgrim's Progress, Part I
Swift's Gulliver's Travels (Voyages to Lilliput and to Brobdingnag)
Defoe's Robinson Crusoe, Part I
Goldsmith's Vicar of Wakefield
Frances Burney's Evelina
Scott's Novels: any one
Jane Austen's Novels: any one
Maria Edgeworth's Castle Rackrent, or The Absentee
Dickens' Novels: any one
Thackeray's Novels: any one
George Eliot's Novels: any one
Mrs. Gaskell's Cranford
Kingsley's Westward Ho! or Hereward the Wake
Reade's The Cloister and the Hearth
Blackmore's Lorna Doone
Hughes's Tom Brown's Schooldays
Stevenson's Treasure Island, or Kidnapped, or The Master of Ballantrae
Cooper's Novels: any one
Hawthorne's The House of the Seven Gables, or Twice Told Tales, or Mosses from an Old Manse
A collection of short stories by various standard writers.

GROUP IV—ESSAYS, BIOGRAPHY, ETC.

The Sir Roger de Coverley Papers, or
Selections from The Tatler and The Spectator (about 200 pages)
Boswell's Selections from the Life of Johnson (about 200 pages)
Franklin's Autobiography

Irving's Selections from the Sketch Book (about 200 pages), or
The Life of Goldsmith
Southey's Life of Nelson
Lamb's Selections from the Essays of Elia (about 100 pages)
Lockhart's Selections from the Life of Scott (about 200 pages)
Thackeray's Lectures on Swift, Addison, and Steele in the English Humorists
Macaulay: one of the following essays: Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederick the Great, or Madame d'Arblay
Trevelyan's Selections from Life of Macaulay (about 200 pages)
Ruskin's Sesame and Lilies, or
Selections (about 150 pages)
Dana's Two years Before the Mast
Lincoln's Selections, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, The Last Public Address, and Letter to Horace Greeley, together with a brief memoir or estimate of Lincoln
Parkman's The Oregon Trail
Thoreau's Walden
Lowell's Selected Essays (about 150 pages)
Holmes's The Autocrat of the Breakfast Table
Stevenson's Inland Voyage, and Travels with a Donkey
Huxley's Autobiography and selections from Lay Sermons, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk
A collection of Essays by Bacon, Lamb, DeQuincy, Hazlitt, Emerson, and later writers
A collection of letters by various standard writers.

GROUP V—POETRY

Palgrave's Golden Treasury (First Series) Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns.
Palgrave's Golden Treasury (First Series) Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study)
Goldsmith's The Traveller and The Deserted Village
Pope's The Rape of the Lock
A Collection of English and Scottish Ballads, as, for example some Robin Hood ballads, The Battle of Otterburn, King Estmere, Young Beichan, Bewick and Grahame, Sir Patrick Spens, and a selection from later ballads
Coleridge's The Ancient Mariner, Christabel, and Kubla Khan
Byron's Childe Harold, Canto III or IV, and The Prisoner of Chillon
Scott's The Lady of the Lake, or Marmion

Macaulay's The Lays of Ancient Rome, The Battle of Naseby, The Armada, Ivry.

Tennyson's The Princess, or Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur

Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, "De Gustibus—," The Pied Piper, Instans Tyrannus

Arnold's Sohrab and Rustum, and The Forsaken Merman

Selections from American Poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.

"II. Books Prescribed For Study and Practice

"For 1913 and 1914:

Shakespeare's Macbeth

Milton's L'Allegro, Il Penseroso, and Comus

Burke's Speech on Conciliation with America; or both

Washington's Farewell Address, and Webster's First Bunker Hill Oration

Macaulay's Life of Johnson, or

Carlyle's Essay on Burns.

"For 1915, 1916, 1917, 1918, and 1919:

GROUP I—DRAMA

One to be Selected

Shakespeare's Julius Caesar, Macbeth, Hamlet.

GROUP II—POETRY

One to be Selected

Milton's L'Allegro, Il Penseroso, and either Comus or Lycidas

Tennyson's The Coming of Arthur, The Holy Grail, and The Passing of Arthur

The selections from Wordsworth, Keats, and Shelley in Book IV of Palgrave's Golden Treasury (First Series).

GROUP III—ORATORY

One to be Selected

Burke's Speech on Conciliation with America

Macaulay's Two Speeches on Copyright, and Lincoln's Speech at Cooper Union

Washington's Farewell Address, and Webster's First Bunker Hill Oration.

GROUP IV—ESSAYS

One to be Selected

Carlyle's Essay on Burns, with a selection from Burns' Poems
Macaulay's Life of Johnson
Emerson's Essay on Manners.

MATHEMATICS

Two to Four Units

5. Algebra Through Quadratics: The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, solution of equations of the first degree containing one or more unknown quantities, radicals including the extraction of the square root of polynomials and numbers, quadratic equations with numerical co-efficients, and problems depending upon such equations. This unit is required of all candidates for admission to freshman standing and should be given in the first year of the high school.

6. Plane Geometry: The adopted text completed, including the solution of original exercises and numerical problems. This unit is required. It is recommended that this work be given in the second year of the high school.

7a. Solid Geometry: The adopted text including properties of straight lines, planes, dihedral and polyhedral angles, projections, polyhedrons, cylinders, cones, spheres, spherical triangles, and the measurements of surfaces and volumes. This half-unit is required for admission to the College of Engineering and is strongly recommended for all courses. It should be given the first half-year following plane geometry.

7b. Algebra; A review of the theory in the first year's course followed by ratio and proportion, theory of exponents, theory of quadratic equations, graphical representation, simultaneous quadratics, binominal theorem for positive integral exponents, progressions, logarithms, including the use of four-place tables. This half-unit is required for admission to certain schools of the university and is strongly recommended for all students. It should be given after the completion of plane geometry, preferably in the fourth year. A year's work in algebra in the second year of the high school is considered barely the equivalent of a half year's work after the training given by a year of plane geometry.

8b. Advanced Algebra: Embracing a study of complex numbers, theory of logarithms, permutations and combinations, binomial theorem, partial fractions, determinants, and the elements of the theory of equations including Horner's Method. One-half unit. This

course is not recommended for secondary schools. The work must be clearly in addition to the algebra requirements of one and one-half units described under 5 and 7b. Credit will be given for this half-unit only upon examination. Students presenting 8b will not be entitled to enroll for credit in Mathematics 5.

8a. Trigonometry: Plane and spherical trigonometry, including the definitions of the six trigonometric functions, proof of important formulas, trigonometric equations and identities, theory of logarithms and use of tables, solution of right and oblique triangles. This course is not recommended for secondary schools unless it can be given under the most favorable conditions. Credit will ordinarily be given for this half-unit only upon examination. Students presenting 8a will not be entitled to enroll for credit in Mathematics 6 or 9.

The work of the first two years in mathematics is definitely recommended for all affiliated high schools and is as follows: first year, algebra through quadratics; second year, plane geometry. The remainder of the mathematics course will vary in different schools, but, unless one-fourth of the time during the last year is given up to review courses closing with a review of arithmetic and algebra, there are good reasons why solid geometry and algebra should be taken in the last year of the high school. Students who take up college algebra without a fresh knowledge of high school algebra are at a great disadvantage. When mathematics must be omitted from any year of the curriculum it is suggested that it may be left out in the third year, and that physics, which is an allied subject, be put in its place.

HISTORY

Not Less Than One Nor More Than Four Units

9. Ancient History: A standard text published since 1899 and at least 200 pages of assigned reading, one-fourth of which should be source material. This unit should be given in the first or the second year of the high school work.

10. Modern History: A standard text published since 1899 and at least 300 pages of assigned reading, one-fourth of which should be source material. Stress may well be laid on English history, if it is not given as a separate unit. This unit should be given in the second or the third year of the high school.

11. English History: A standard text published since 1899 and at least 300 pages of assigned reading, one-fourth of which should be source material. This unit should not be given by high schools, unless four years of history are given. It belongs in the third year of the high school.

12. American History or American History and Civil Govern-

ment: The adopted text and at least 350 pages of assigned reading, one-fourth of which should be source material. The origin and development of our government, central and state, should be studied. This course, if credited, must be given in the third or the fourth year of the high school. Oklahoma history may be included.

If but one of the above units can be given, modern history is recommended, although some authorities prefer the ancient history. A year's course in general history is not credited, unless taken before July 1, 1909.

CIVICS

One-Half Unit

13a. Civics: Civil government may be studied apart from American history, and a half-year course may be given in either the first or the last year of the high school. The adopted text with special attention to the government of Oklahoma both state and local.

ECONOMICS

One-Half Unit

13b. Economics: A standard text with collateral readings, especially on the economic history of England and the United States. In the selection of texts it is well to avoid large and difficult books intended for college classes.

LATIN

One, Two, Three, or Four Units

14. First Year Latin: The adopted text with careful drill in forms. The Latin should be read aloud with intelligent expression, and translations should be made into idiomatic English.

15. Second Year Latin, Caesar's Gallic War: Four books, or equivalent, with one period a week of prose composition based on Caesar.

16. Third Year Latin, Cicero: Any six orations from the following list, but preferably the first six mentioned: the four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the fourteenth Philippic. The equivalent of at least one period a week in prose composition based on Cicero.

17. Fourth Year Latin, Vergil: The first six books of the Aeneid; Mythology.

"Equivalents may be presented as follows: Second year Latin, Caesar, *Gallic War* and *Civil War* and Nepos, *Lives.* Third year, Cicero, *Orations, Letters*, and *De Senectute* and Sallust, *Catiline* and

Jugurthine War. Fourth year, Vergil, *Bucolics, Georgics,* and *Aeneid* and Ovid, *Metamorphoses, Fasti,* and *Tristia*". These specifications accord with the recommendations of the Commission on College Entrance Requirements in Latin appointed by the American Philological Association in 1908.

No combination of prose and poetry will be accepted as a unit, unless taken before July 1, 1909.

GREEK

One, Two, or Three Units

18. Introductory Lessons: A careful drill on forms and accents, practice in reading at sight, systematic study of grammar begun, 20 to 30 pages of Anabasis or equivalent.

19. Xenophon's Anabasis: 75 to 120 pages of the Anabasis either alone or with other Attic prose. Continued study of grammar and practice in writing Greek, both based on the study of Books I and II of the Anabasis.

20. Homer (2,500 to 4,000 Lines): e. g.; Iliad I-III (omitting II 494-end), and VI-VIII, Attic prose (33-40 pages), with practice in writing Greek; grammar, practice reading at sight.

GERMAN

One, Two, Three, or Four Units

21. First Year German: Drill in pronunciation and in the rudiments of grammar, the memorizing and frequent repetition of easy colloquial sentences, abundant easy exercises as application of grammar and to cultivate readiness in the reproduction of natural forms of expression. Reading of 50 to 100 pages of easy text. Thoroughness and accuracy are the chief considerations.

22. Second Year German: The reading of two or three suitable texts in the form of easy stories and plays, such as:

1. Storm's *Immensee* or Arnold's *Fritz auf dem Lande.*
2. Seidel, *Weihnachten bei Lebrecht Huehnchen* or Riehl, *Die Werkender Barmherzigkeit.*
3. Kotzebue, *Die Deutschen Kleinstadter* (as a play).

Practice in translation of English into German, also easy dictation and composition exercises.

23. Third Year German: A thorough and systematic review of the fundamental principles of grammar in connection with suitable practice in composition. A text-book such as Pope's or Bernhardt's German Composition should be used for this purpose. The reading of

300 to 350 pages of moderately difficult prose of which the following are good examples:

1. Freytag's *Die Journalisten,* or Lessing's *Minna von Barnhelm.*
2. Schiller's *Wilhelm Tell* or Goethe's *Hermann und Dorothea.*
3. Freytag, *Aus dem Jahrhundert des Grossen Krieges,* or Treitschke's, *Das Deutsche Ordensland Preussen.*

In addition selections from poems of Uhland, Heine, Schiller, Goethe, etc.

25. Fourth Year German: The work of the fourth year should comprise the reading of about five hundred pages of good literature in prose and poetry, reference reading upon the lives and works of the great writers studied, the writing in German of numerous short themes upon assigned subjects, independent translation of English into German.

FRENCH

One, Two, Three, or Four Units

25. First Year French: Drill in pronunciation and the rudiments of grammar; abundant easy exercises; the translation of from 100 to 175 pages of graduated texts with constant practice in writing French from dictation, and in translating into French easy variations of the sentences read.

26. Second Year French: The translation of from 250 to 400 pages of easy modern prose with constant practice as in the previous year.

27. Third Year French: The work of the third year should comprise the translation of from 400 to 600 pages of ordinary French, a portion to be in dramatic form; constant practice as in previous years.

28. Fourth Year French: During the fourth year the work should comprise the reading of from 600 to 1,000 pages of standard French, classical and modern, the writing of numerous short themes in French, and the study of syntax.

SPANISH

One or Two Units

29. First Year Spanish: Careful drill upon pronunciation and the rudiments of grammar with numerous exercises, the reading of from 100 to 175 pages of graduated texts, with translation into Spanish of easy variations of the sentences read; writing Spanish from dictation.

30. Second Year Spanish: The reading of from 250 to 400 pages of modern prose with constant practice as in the previous year.

PHYSICS

One Unit

31. Physics: The work should consist of three closely related parts, namely: class work, lecture demonstration work, and individual laboratory work. Three periods a week should be devoted to class and lecture demonstration work, and in addition to this, at least two double periods a week must be devoted to individual laboratory work. Thirty to fifty experiments selected from a standard laboratory manual should be performed.

Physics should be given in the third or in the fourth year of the high school. If chemistry is given, physics should cover the third year and chemistry the fourth. When physics is given in the third year, solid geometry and algebra from quadratics may well be put off until the fourth year, as physics must be to some extent a mathematical course. The training given by a course in plane geometry is almost necessary for satisfactory work in physics.

CHEMISTRY

One Unit

32. Chemistry: The work in chemistry should consist of three parts, namely: class work, lecture demonstration work, and individual laboratory work. Three periods a week should be devoted to lecture and recitation work, and in addition to this at least two double periods a week must be spent by the students in actual laboratory work. It is desirable that elementary physics be thoroughly understood before chemistry is taken up. Chemistry if given should be a fourth-year subject. This course is not recommended for secondary schools.

PHYSICAL GEOGRAPHY

One-Half or One Unit

33. Physical Geography: This course should cover a study of the physical forces that are in operation on the earth's surface; physiographic forms, earth structure, work of streams, glaciers, oceans, etc. Two-fifths of the time should be spent in laboratory work.

BOTANY

One-Half or One Unit

34. Botany: The course should cover a study of the life histories of types from the main groups of plants. Three-fifths of the time should be devoted to individual laboratory work, and the remainder to recitations and discussions. Field excursions should be made, and

careful notes and drawings should be required in connection with the laboratory.

Where it is not possible to give a full year's work in botany, free-hand drawing, physical geography, or zoology may be combined with the botany, so as to make one unit.

ZOOLOGY AND PHYSIOLOGY

One-Half or One Unit

35. Zoology: The course in zoology should cover a study of the classifications, general structure, and life histories of types from the main groups of animals. Three-fifths of the time should be devoted to actual laboratory work, and the remainder to recitations and discussions. Field excursions should be made, and careful notes and drawings should be required in connection with the laboratory work.

35a. Zoology: "Where but half a year's work is offered in zoology the teacher should select the groups to be studied. Since the groups do not require equal periods of time, the number to be studied in a half year's course will depend on the selections. It should be not less than five."

35b. Physiology: This course should be taught by specially prepared instructors in physiology and by laboratory methods. Two-fifths of the time should be spent in laboratory work and the remainder in recitations. Neat and correct drawings, properly labeled, and intelligible notes should be made of each study, lecture-demonstration, or experiment.

"Where but half a year's work is offered in zoology, and where at the same time human physiology is taught, the zoology should be followed at once by the physiology or the two subjects combined into a single course. It is believed that time will be saved by this arrangement and that interest will be added to both subjects."

Physiology given before the middle of the tenth grade will be credited only upon examination.

OCCUPATIONAL SUBJECTS

Three units may be presented from the work described hereafter in manual training, agriculture, and commercial subjects. Since but fifteen units are required for admission, one-sixteenth of the pupil's time is left free for devotion to subjects for which entrance credit is not given. A pupil preparing for the university may therefore take four units of this work in the high school.

The minimum time given per year in manual training in order to count as a unit should be not less than 240 hours of 60 minutes. No superior limit is given, but additional time spent in any year will not

receive additional credit. Credit will be given for occupational courses only upon examination unless the work was done under proper conditions in an affiliated school.

36. Shop Work: Simple operations in joinery, training in the care and use of tools with the development of a reasonable degree of skill. A portion of the time may be given to wood turning or pattern making.

37a. Free-Hand Drawing: Sketching from objects, casts, etc., with pencil or charcoal. This course should develop originality and an appreciable degree of accuracy in observation and representation. This one-half unit is urgently recommended for engineering students.

37b. Free-Hand Drawing: If sufficient time is given, and if the course is extended to include pen and ink sketching, free-hand perspective, or similar work, an additional half-unit of free-hand drawing may be presented.

37c. Mechanical Drawing: The use and care of drawing instruments. Practice plates and the solution of selected geometrical problems. Special attention should be paid to the quality of the work.

The same pupil may not present 37b and 37c, but either may be presented with 37a.

38. Domestic Science: A standard laboratory course in the household arts. Plain sewing, including the use and care of sewing machines, the nature and uses of cotton, linen, and woolen goods, patterns and measurements. Cooking, including the classification and cost of foods, diets, water supply and the disposal of waste. It is not to be inferred that all the topics mentioned must be discussed or demonstrated. One-half or one unit may be presented.

40a. Commercial Law: The legal principles governing business relations. Text, supplemented by some study of cases by way of illustration, discussions, and practice in drawing legal papers. One-half unit.

40b. Commercial Geography: The factors in commerce, followed by a detailed study of the United States and other leading commercial nations with reference to resources, industries, etc. This half-unit should be preceded by physical geography if possible.

41a. Arithmetic: Writing numbers from dictation; fundamental operations; much oral and written drill in fractions; practical measurements; percentage; applications of percentage to profit and loss, commissions, taxation, fire insurance, life insurance, trade discounts, commercial paper, interest and exchange, ratio and proportion, involution and evolution. This unit will not be credited unless

taken after the student has completed a unit of algebra and a unit of plane geometry.

41b. Bookkeeping: The technical business subjects, especially bookkeeping and stenography, are vocational in purpose and must therefore be taught with a view to a practical mastery. This fact should suggest and control the method. For example, no credit should be allowed unless the work is done neatly, accurately, and at a satisfactory rate of speed.

Definitions of double entry terms, with rules for debit and credit; kinds and uses of books; conduct of a set including the journal, cash book, sales book, ledger, check book, bank pass book, trial balance book; closing of books; single entry set; changing from single to double entry. One half-unit.

42. Shorthand and Typewriting: No credit should be given for either shorthand or typewriting if taken alone. The "touch" method is strongly recommended in typewriting.

The object is first, accuracy, and second, speed in dictation and transcribing notes. Equally essential are correct spelling, capitalization, punctuation and paragraphing.

No credit will be given unless the following speed is attained: 75 words per minute in dictation and 25 words per minute on the machine.

Thorough training should also be given in care of the machine and in methods of copying, manifolding and filing papers. One unit.

ACCREDITED SCHOOLS

List of Affiliated Schools Accredited for 15 or more Units

Name	Superintendent	Principal
Altus	W. H. Decker	Bert McClelland
Anadarko	W. H. Bishop	F. A. Balyeat
Arapaho	J. R. Campbell	A. E. Remund
Ardmore	C. W. Richards	Wm. A. Erdman
Atoka	J. P. Battenberg	Lulu Johnson
Bartlesville	F. W. Wenner	E. J. Asbbaugh
Beaver	John E. Swaim	Lena Wright
Blackwell	A. J. Lovett	F. L. Bacon
Carmen	H. A. Berlin	Eunice Denison
Chandler	Clen E. Tope	Etta Delay
Checotah	G. C. Rorie	----------
Chelsea	E. A. Hillhouse	Anna Waldrop
Cherokee	Clay M. Fisk	Roy Carder
Chickasha	W. F. Ramey	Edgar Cowan
Claremore (U.P.S.)	J. H. Bayes, President	----------

Name	Superintendent	Principal
Cleveland	Harold J. Janson	Geo. W. Goble
Clinton	W. S. Bryan	Minnie Castleberry
Coalgate	A. P. Lever	T. L. Mauldin
Collinsville	W. D. Harwood	LeRoy H. Petit
Copan	W. J. Robinson	----------
Cordell, Chris. Col.	Acad., J.N. Armstrong,	Pres. ----------
Cordell	Chas. Baldwin	Margaret Williamson
Cushing	C. H. Parrick	Nana Stover
Custer City	L. J. Knack	Marjorie Carr
Dewey	T. H. Robinson	A. R. Orr
Duncan	Nim Hill	A. A. Neissler
Elk City	J. C. Tucker	Julia E. Luker
El Reno	C. M. Lieb	Moses E. Gaskill
Enid	F. C. Jacoby	C. H. Thuermer
Enid, Phillips Uni.	Acad., E. V. Zollars,	Pres. ----------
Eufaula	H. C. King	L. W. Webber
Fairfax	B. E. Richardson	M. M. Stewart
Fairview	W. Homer Hill	W. H. Ballard
Frederick	H. G. Faust	T. A. Gross
Geary	A. L. Kerbow	Eva Payne Burrows
Granite	C. E. Grady	R. H. Cloyd
Guthrie	F. D. Brooks	Chas. E. Greene
Guthrie, Meth. Uni.	Acad., ----------	----------
Guymon	Phillip Power	Walter Dumph
Hennessey	A. J. Moore	Wm. M. Lemay
Henryetta	J. T. Hefley	R. W. Hughes
Hobart	R. M. Caldwell	A. A. Rogers
Holdenville	H. R. Nicolas	A. M. Cockrell
Hollis	E. M. Castleberry	Chas. R. Cox
Hugo	H. G. Bennett	W. J. Holloway
Kingfisher	E. S. McCabe	Laura Ghering
Kingfisher College	Acad., C. B. Moody,	Pres. ----------
Lawton	W. C. French	H. A. Carroll
Lexington	N. H. Edwards	Mabel A. Thacker
Lindsay	P. W. Swartz	Harry Hodges
Madill	T. T. Montgomery	J. T. Hatcher
Mangum	A. W. Duff	J. G. Ward
Marietta	W. C. Canterbury	Margaret Andrews
McAlester	C. N. Peak	R. L. McPheron
McLoud	W. W. Isle	Frank E. Van Slyke
Medford	J. O. Allen	Effie M. Renshaw
Miami	M. R. Floyd	Mary Potter

Name	Superintendent	Principal
Mt. View	F. W. Whinery	Alice Carpenter
Muldrow	W. A. Battles	Alonzo Miller
Muskogee	E. S. Monroe	L. E. Weatherwax
Newkirk	E. B. Wood	J. Glenn Bixler
Norman	E. E. Holmes	R. A. Graddy
Nowata	E. B. Gardner	C. B. Quicksall
Okemah	John Harris	Garvin D. Shallenberger
Oklahoma City	G. V. Buchanan	J. G. Masters
Okmulgee	N. O. Hopkins	R. R. Short
Oktaha	W. A. Stackable	----------
Pawnee	J. M. Stinson	H. T. Flaugher
Pauls Valley	M. H. Duncan	C. C. Clark
Perry	R. R. Robinson	----------
Ponca City	J. W. Whiteside	Ralph S. Dobbins
Pond Creek	J. E. Arendell	Celia Titt
Porum	Frank Harper	Addie Powers
Poteau	J. A. McKelvey	H. V. Lewis
Pryor	J. G. Mitchell	R. A. Wilkerson
Purcell	J. E. Mumma	Margaret Hunter
Ramona	J. F. Johnston	Edith Woodburn
Ryan	J. H. Hayes	H. A. Warner
Sallisaw	W. B. Wall	T. N. Hollingsworth
Sapulpa	A. C. Cohagan	C. H. Woodruff
Sayre	W. T. Fisher	Gladdie Goode
Shawnee	Scott Glen	B. L. Pilcher
Snyder	E. H. Homberger	W. B. Burks
Stillwater	C. L. Kezer	B. F. Brown
Stilwell	Lula B. Jones	J. M. Guilliams
Stigler	M. L. Cotton	D. P. Trent
Sulphur	T. M. Broadfoot	L. L. Knight
Tecumseh	A. L. Richards	L. C. Durham
Temple	A. H. Burris	W. S. Rosamond
Thomas	K. W. Harris	C. L. Honnold
Tishomingo	J H. Johnston	W. C. Jordan
U. P. S. (Tonkawa)	Lynn Glover, Pres.	----------
Tulsa	E. E. Oberholtzer	F. J. Katz
Henry Kendall Col.	Acad., S. W. Hawley,	Pres. ----------
Vinita	W. G. Masterson	J. J. Miller
Wagoner	G. W. Austin	J. E. Sullivan
Walters	M. W. Pearl	Mame Benge
Wapanucka	John G. March	Will Ware
Watonga	J. O. Shaw	C. G. Harwood

Name	Superintendent	Principal
Waurika	C. S. Storms	Jennie Bowers
Weleetka	G. W. Hilderbrandt	R. Richard Robertson
Wilburton	Silas Laws	Emma Irminger
Woodward	Geo. C. Wakefield	E. E. Halley
Wynnewood	A. B. Herring	Alberta Carney

List of Affiliated Schools Accredited for 12 to 14 1-2 Units

Ada	T. W. Robinson	J. W. Shipp
Afton	J. O. Crook	Jeanette Reed
Apache	A. L. Ives	----------
Carnegie	A. C. Armstrong	Reggie A. Calvert
Coweta	A. E. Haage	V. T. Wood
Davis	R. E. West	Nola Hill
Devol	R. A. Mock	----------
Durant	W. H. Echols	I. S. Hinshaw
Erick	A. R. Harris	Sam Burton
Gage	Will T. Henderson	E. E. Cowan
Haileyville	C. P. Hicks	----------
Hartshorne	Morgan T. Craft	Paul N. Campbell
Hinton	C. E. Hutton	Mrs. C. E. Hutton
Konawa	T. B. Liner	John Meiser
Lone Wolf	A. J. Foster	J. C. Stewart
Randlett	M. P. Vauahn	----------
Spiro	A. E. Riling	J. A. Skinner
Texhoma	J. L. Kinsey	Ura Secord
Vian	W. W. Mills	W. A. Hinkle
Waukomis	Angus L. Shattuck	Emma Shattuck
Wetumka	A. C. Bray	Mrs. A. C. Bray
Yukon	D. C. Corbin	Ophelia Overstreet

List of Affiliated Schools Accredited for 8 to 11 1-2 Units

Adair	J. A. Knox	----------
Beggs	E. E. Norvell	Stella Settler
Britton	I. L. Harris	----------
Byars	J. D. Warner	----------
Crowder	B. H. Locke	----------
Gotebo	Frank Charleton	----------
Haskell	J. M. Osborne	Mrs. J. R. Holcombs
Heavener	T. W. Lanham	----------
Ingersoll	A. W. Fanning	----------
Kiowa	Lincoln Edwards	B. M. Gramling

Name	Superintendent	Principal
Krebs	T. A. Craighead	----------
Mooreland	John Dail	----------
Mounds	S. T. Johnson	----------
Red Oak	J. A. Leach	----------
Shattuck	R. L. Clifton	Leo S. Scott
Tupelo	C. L. Whitley	----------
Waynoka	J. P. Cowan	Ruth Carlin
Welch	H. G. Provines	Josephine Barker
Wewoka	Clarence Robinson	Elizabeth Starner
Wister	J. E. Garrett	----------
Yale	L. G. Lewis	----------

List of Affiliated Schools Accredited for 4 to 7 1-2 Units

Arnett	R. L. Seaton	----------
Boynton	J. T. Collier	----------
Braggs	G. W. Meeks	----------
Calvin	E. J. Hayes	----------
Capron	William Lane	----------
Choteau	L. P. Evans	----------
Council Hill	M. M. Anderson	----------
Delaware	W. E. Hollis	Loyd Clark
Fallis	T. H. Denyer	----------
Ft. Gibson	B. F. Watson	Bascom Anthony
Howe	E. D. McCarrel	----------
Lehigh	J. R. Hendrix	----------
Lenapah	W. H. Kilgore	----------
Ochelata	L. S. Giffin	----------
Okarche	Chas. Buthod	----------
Quinlan	Lena Logue	----------
Red Rock	G. B. Roberts	----------
Stonewall	T. F. Pierce	----------
Terral	M. A. Courtright	----------
Texola	O. E. Hilton	A. O. Giles
Wainright	J. R. Barton	----------
Webbers Falls	J. B. Monical	----------

THE GRADUATE SCHOOL

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

ALBERT HEALD VANVLEET, Ph. D.
Dean of the Graduate School, Professor of Biology.

*EDWIN DEBARR, Ph. D.
Professor of Chemistry, Vice-President of the University, Director of the School of Chemical Engineering.

JAMES SHANNON BUCHANAN, B. S.
Professor of History, Dean of the College of Arts and Sciences.

JOSEPH FRANCIS PAXTON, A. M.
Professor of Greek and Classical Archaeology.

ROY GITTINGER, A. M.
Professor of English History.

JAMES WELLINGS STURGIS, Ph. D.
Professor of Latin.

SAMUEL WATSON REAVES, A. M.
Professor of Mathematics.

JAMES HUSTON FELGAR, M. E.
Professor of Mechanical Engineering, Dean of the College of Engineering.

FREDRIK HOLMBERG, B. M.
Professor of Music, Dean of the School of Fine Arts.

SARDIS ROY HADSELL, A. M.
Professor of the English Language.

GUY YANDALL WILLIAMS, Ph. D.
Associate Professor of Chemistry.

HENRY HIGGINS LANE, M. A.
Professor of Zoology.

JEROME DOWD, M. A.
Professor of Sociology and Economics.

* On leave of absence.

THEODORE HAMPTON BREWER, M. A.
Professor of English Literature, Director of the School of Journalism.

LUCILE DORA, M. A.
Professor of the Romance Languages and Literatures.

LOUIS ALVIN TURLEY, A. M.
Professor of Histology and Pathology

MONROE ALLEN FLOYD, A. M.
Associate Professor of History.

JOHN CHESTER DARLING, M. S., M. D.
Physical Director.

HAROLD VEATCH BOZELL, B. S.
Professor of Electrical Engineering, Director of the School of Electrical Engineering.

JOHN HENRY VOSS, M. A.
Associate Professor of German.

HERBERT BANCROFT DWIGHT, B. S.
Professor of Mechanics.

CHARLES HENRY TAYLOR, M. S.
Professor of Geology, Director of the School of Mining Geology.

WILLIAM PETER HASEMAN, PH. D.
Professor of Physics.

STEPHEN MELVIL BARRETT, A. M.
Professor of Education.

JOHN ALLEY, A. B.
Professor of Political Science.

ROY TEMPLE HOUSE, A. M.
Professor of the Germanic Languages and Literatures.

FREDERICK CHARLES KENT, B. S.
Associate Professor of Mathematics.

JAMES I. TUCKER, B. S., LL. B.
Professor of Civil Engineering, Director of the School of Civil Engineering.

IRVING PERRINE, Ph. D.
Professor of Stratigraphic Geology and Paleontology.

GAYFREE ELLISON, B. S., M. D.
Professor of Bacteriology.

WARREN WAVERLEY PHELAN, Ph. D.
Professor of Psychology, Director of the School of Education.

EVA ELLSWOTRH DUNGAN.
Associate Professor of Piano and Public School Music.

CHARLES FRANCOIS GIARD.
Associate Professor of Piano and Theory of Music.

LEONARD BLAINE NICE, Ph. D.
Professor of Physiology.

THE GRADUATE SCHOOL

The University of Oklahoma offers graduate instruction to those who desire a more thorough preparation than is offered by the various undergraduate schools and colleges.

The legislative faculty of the Graduate School is composed of the members of the faculties, with the rank of professor and associate professor, offering graduate work.

ADMISSION

Students holding the bachelor's degree from this university or from some other acceptable institution are admitted to the Graduate School. Other persons suitably qualified may be admitted upon such conditions as may be imposed in each case by the committee on graduate studies.

Candidates for admission make formal application, on the proper blanks, to the Dean of the Graduate School, submitting their diplomas or other credentials. Candidates from other institutions must present testimonials as to character and scholarship.

Three classes of students are admitted: (1) those not candidates for an advanced degree; (2) candidates for an advanced degree who are deficient in undergraduate preparation; and (3) those who are prepared to select at once their major and minor subjects and become candidates for a degree at the beginning of their graduate work.

Students, not candidates for an advanced degree, who are graduates from this university, are given permission to register by the dean. Students from other institutions present their credentials to the dean who, on approval of the committee on graduate studies, grants them permission to register.

Candidates for an advanced degree, who are deficient in undergraduate preparation, will have their work evaluated by the committee on graduate studies. When such deficiency has been made up the dean will grant the applicant permission to register and become a candidate for the proposed degree.

Candidates for an advanced degree whose proficiency is certified to by the committee on graduate studies are permitted to register by the dean.

Students from this university who have completed the undergrad-

uate course and have been properly recommended for graduation may register in the Graduate School even though the degree is not conferred until the close of the school year. Students from this university, who at the beginning of any semester are within three hours of graduation, may count that semester as the first of the two semesters required for residence for the master's degree. Students who are within six hours of graduation at the beginning of any semester may, on approval of the committee on graduate studies, select from the courses offered for graduate work enough to make a total of not more than 16 hours, and this work may receive such credit towards an advanced degree as the committee on graduate studies may determine.

ADVISERS

The Dean of the Graduate School is the official adviser of all students of the school. The professor under whom the student elects his major work, however, becomes his special adviser and chairman of his special committee, which consists of the professors under whom he does his work. The special committee outlines and has general oversight of the student's work, subject to the rules of the Graduate School and the approval of the dean. Enrollment cards must be signed by the major professor and the dean.

DEGREES

The University of Oklahoma offers the following advanced degrees:
Master of Arts.
Master of Science unqualified.
Master of Science in Engineering.
Civil Engineer.
Mechanical Engineer.
Chemical Engineer.
Electrical Engineer.

Requirements for the Master's Degree.

Candidates who complete at least one year of graduate work present an acceptable thesis, and pass all required examinations will be recommended by the faculty of the Graduate School for the master's degree.

A total of not less than thirty hours credit must be earned with a grade of A or B. With the approval of the committee on graduate studies, resident work to the extent of fifteen hours may be accepted from some other institution. The last fifteen hours, however, must be done in the University of Oklahoma.

Candidates shall chose a major study and one or two minor

studies. To each minor shall be devoted approximately one-half of the work devoted to the major study. The major and one minor may fall within the same department, but must be taken under different instructors. If two minors are selected, one must be chosen from another department.

Members of the legislative faculty of the Graduate School may not become candidates for a higher degree.

No work done in the major subjects may count towards the master's degree until the departmental requirements as to previous work have been complied with, which shall in no case be less than eleven hours.

At the end of each semester, candidates shall pass such examinations or make such written reports upon the work as far as completed as the professors in charge may require.

A final examination, written or oral or both, is taken in each course on completion of the same. The examination is conducted by the candidate's major and minor professors, and the grade is reported to the registrar.

The subject of the thesis, approved by the student's major professor, must be chosen and reported to the dean not later than four weeks after the student becomes a candidate for this degree. The completed thesis, approved by the student's major professor, must be presented to the dean at least ten days before the commencement at which the applicant expects to take his degree. On recommendation of the major professor, the dean may excuse a student from presenting a thesis.

After final approval and before receiving his degree, the candidate must deposit one original and one duplicate typewritten copy of his thesis with the Librarian of the University. The thesis shall be paged and bound according to a prescribed form which may be seen at the university library.

Engineering Degrees

Graduates of this institution holding the degree of Bachelor of Science in Engineering or Master of Science in Engineering may be granted the professional degree of Engineer, qualified by the school in which the undergraduate work is done, upon the following conditions: The candidate must present acceptable evidence of at least three years of practice in his profession, at least one of which must have been in a position of responsibility. He shall present a satisfactory thesis upon some engineering subject. This thesis shall cover investigation carried on personally by the applicant for the degree. The thesis must be presented in its final form to the Dean of the College of Engineering not later than May 1 of the year in which the degree is

to be granted. The candidate shall furnish two typewritten bound copies of the thesis and duplicate sets of all drawings, plans, specifications and other material applying to the thesis, to the university for its permanent possession. Candidates must enroll for this degree not later than Nov. 1 of the school year in which the degree is expected.

Summer Session and Correspondence Courses

With the consent of the departments concerned, fourteen hours of credit towards a master's degree may be earned through correspondence courses,. Sixteen hours constitute full work for a semester, and eight hours for a summer session. It is therefore possible for a stuent to complete the work for a degree by attendance upon one semester, or two summer sessions supplemented by fourteen hours of credit earned through correspondence courses. It is earnestly advised, however, and in most cases required, that the student complete two semesters in residence, or three summer sessions in residence, supplemented by six hours of credit earned through correspondence courses.

All correspondence courses must be approved by the student's major professor and the Dean of the Graduate School.

FELLOWSHIPS AND SCHOLARSHIPS

A limited number of fellowships, paying $225.00 a year, and of scholarships paying $180.00 a year, will be available in the Graduate School. The departments in which these fellowships and scholarships are available will vary from time to time in accordance with the needs of the university. Fellows and scholars will be required to give approximately one-fourth of their time to teaching or other work in connection with the department. Applications for fellowships and scholarships should be made to the Dean of the Graduate School before the first of April preceding the college year for which the assignment is made.

COURSES FOR GRADUATE WORK

For description of courses, see the corresponding numbers under the several departments of the College of Arts and Sciences.

They are listed here in two groups, those suitable for a minor only, and those that may also count towards a major.

Bacteriology:

Minors, 101, 102, 103.

Botany:

Minors, 101, 102, 103, 104.

Chemistry:

Minors, 102, 121, 101, 123, 151, 152.

Majors, 122, 124, 107, 108, 104, 105, 106, 126, 125, 103. 153.

Economics:
Minors, 100, 101.
Majors, 102, 103, 104, 200, 201.

Education:
Minors, 101, 102, 106, 131, 132, 133, 134, 135, 136, 138, 139, 108, 137.
Majors, 103, 105, 107, 109, 110, 111, 112, 201, 202, 203, 204, 113.

English:
Minors, 111, 112, 113, 110, 116, 117, 118, 119.
Majors, 101, 114, 115, 105, 106, 100, 107, 102, 108, 109.

French:
Minors, 100, 101, 103, Education 134.

Geology:
Majors, 100, 101, 102, 103, 104, 105, 106, 111, 112. 113, 200, 201, 202, 203.

German:
Minors, 105, 107.
Majors, 101, 102, 108, 109, 110, 111, Education 135.

Greek:
Minors, 100, 101.

History:
Minors, 105.
Majors, 101, 102, 103, 106, 108, 110, 109, 111, 112.

Journalism:
Minors, 100, 101, 102, 103, 104, 116, 117, 118, 119.

Latin:
Minors, 100, 101, 102, 103, 104.

Mathematics:
Minors, 117, 118.
Majors, 122,125, 126, 131, 135, 136, 141.

Pathology:
Minors, 101, 102, 103, 104.

Philosophy:
Minors, 101, 106, 110, 112.
Majors, 102, 103, 104, 105, 107, 108, 109, 113, 114, 115, 201, 202.

Physics:
Minors, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109.

Physiology:
Minors, 101, 102.

Political Science:
Minors, 100, 101, 102, 103, 104, 105, 106, 200.

Sociology:
Minors, 100, 101, Zoology 104.
Majors, 102, 103, 104, 200, 201.

Theory of Music:
Minors, 108, 109, 110, 112.

Zoology:
Minors, 100, 101, 102, 103, 104, Education 137.
Majors, 200, 201.

Civil Engineering:
Minors, 151, 152, 154, 155, 156, 157, 158, 160, 161.
Majors, 200, 201, 202, 203, 204, 205, 206, 207, 208.

Electrical Engineering:
Minors, 161, 162, 163, 164, 165, 171, 172, 173, 175, 176, 177, 178, 179, 182.
Majors, 203, 204, 205, 206, 207, 208, 209.

Engineering. Major in any of the schools of Engineering, 201.

Mechanical Engineering:
Minors, 151, 153, 154, 155, 158, 161, 162, 163, 164, 165, 166.
Majors, 200, 201, 202.

Mechanics:
Minors, 151, 152, 153, 154, 155.

Chemical Engineering. See chemistry.

THE COLLEGE OF ARTS AND SCIENCES

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

JAMES SHANNON BUCHANAN, B. S.
Dean of the College of Arts and Sciences, Professor of History.

†EDWIN DEBARR, Ph. D.
Professor of Chemistry, Vice-President of the University, Director of the School of Chemical Engineering.

JOSEPH FRANCIS PAXTON, A. M.
Professor of Greek and Classical Archaeology.

ALBERT HEALD VANVLEET, Ph. D.
Professor of Biology, Dean of the Graduate School.

*ROY GITTINGER, A. M.
Professor of English History.

JAMES WELLINGS STURGIS, Ph. D.
Professor of Latin.

*SAMUEL WATSON REAVES, A. M.
Professor of Mathematics.

*SARDIS ROY HADSELL, A. M.
Professor of the English Language.

GUY YANDALL WILLIAMS, Ph. D.
Associate Professor of Chemistry.

*HENRY HIGGINS LANE, M. A.
Professor of Zoology.

JEROME DOWD, M. A.
Professor of Sociology and Economics.

THEODORE HAMPTON BREWER, M. A.
Professor of English Literature.

LUCILE DORA, M. A.
Professor of the Romance Languages and Literatures.

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†On leave of absence, 1913-1914.
*On leave of absence, 1914-1915.

*Louis Alvin Turley, A. M.
Professor of Histology and Pathology.

Monroe Allen Floyd, M. A.
Associate Professor of History.

John Chester Darling, M. S., M. D.
Director of Physical Training.

John Henry Voss, M. A.
Associate Professor of German.

Charles Henry Taylor, M. S.
Professor of Geology, Director of the School of Mining Geology.

William Peter Haseman, Ph. D.
Professor of Physics.

Errett Rains Newby, B. A.
Secretary, Registrar.

Stephen Melvil Barrett, A. M.
Professor of the Science of Teaching.

Henry Hubbard Foster, A. B., LL. B.
Professor of Law.

John Alley, A. B.
Professor of Political Science.

*Roy Temple House, A. M.
Professor of the Germanic Languages and Literatures.

Frederick Charles Kent, B. S.
Associate Professor of Mathematics.

Irving Perrine, Ph. D.
Professor of Stratigraphic Geology and Paleontology.

Gayfree Ellison, B. S., M. D.
Professor of Bacteriology.

Andrew Clarkson Parsons, A. B.
Professor of Secondary Education, High School Inspector.

Warren Waverley Phelan, Ph. D.
Professor of Psychology, Director of the School of Teaching.

Leonard Blaine Nice, Ph. D.
Professor of Physiology.

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*On leave of absence, 1914-1915.

LLOYD BURGESS CURTIS, B. S.
Assistant Professor of Spanish.

LOUISA BROOKE, B. A.
Assistant Professor of English, Adviser of Women.

ARTHUR BARTO ADAMS, A. B.
Assistant Professor of Economics.

BURTON FRANK TANNER, B. L.
Assistant Professor of Public Speaking.

CHARLES EARNEST HAMNER, M. D.
Assistant Professor of Bacteriology.

BENJAMIN GILBERT OWEN.
Assistant Director of Physical Training and Coach.

PATRICIO GIMENO, B. A.
Assistant Professor of Art, Instructor in Italian.

LAWRENCE NELSON MORGAN, B. A.
Instructor in English.

EARL SELLERS PORTER, A. M.
Instructor in Chemistry.

HAROLD HARVEY HERBERT, A. B.
Instructor in Journalism.

KENNETH POTTER MONROE, B. S.
Instructor in Chemistry.

RACHEL REVELL, Ph. B.
Instructor in Physical Training.

*ALEXANDER W. MCCOY, M. A.
Instructor in Geology.

*JOSEPH LESLIE RILEY, M. A.
Instructor in Physics.

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*From February 9, 1914.

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is the center of the University of Oklahoma out of which the professional schools have grown and around which they are grouped. A large part of its instruction is foundational for the best work in these professional schools, and there is a growing tendency to require one or more years of general college training for admission to a professional school.

The College of Arts and Sciences affords many of its students an opportunity to test themselves in various fields of scholastic endeavor pending the time when they shall discover what the dominant interests of their lives are to be. For many others the college presents subjects or groups of subjects directly related to the student's chosen line of professional endeavor, for example, in teaching, in journalism, in commerce and industry, and in various lines of scientific work.

ADMISSION

The requirements for admission to the College of Arts and Sciences are explained under the head of "Admission."

REGULAR PLAN OF WORK

To secure the bachelor's degree from the College of Arts and Sciences the candidate must complete 124 hours of work in accordance with the plan hereinafter set forth.

Every hour for which credit is given is understood to represent for the average student approximately three hours of work a week through one semester. Thus, in lecture or recitation work, one hour is allowed for the lecture or recitation and two hours for preparation, reading, or study. Where the time is wholly occupied by drawing, or laboratory, or field work, three hours a week for one semester are expected of the student for each hour that counts toward graduation.

The completion of the 124 hours thus defined requires four years. Of these the first or freshman year is spent in general or introductory work, comprising courses in several departments and in widely separated subjects. During this year the student's choice of studies is subject to the approval of the dean of the college. During the second, third, and fourth, or sophomore, junior, and senior years, the student's

choice of studies is subject to the approval of a major professor, and he may confine the work within certain comparatively narrow limits. The plan of the entire four years' work is known as the "major elective system." It consists of four parts: I, prescribed freshman work; II, major study; III, group electives; and IV, free electives.

I. Prescribed Work

(a)	English 1, 2		8 hours.
(b)	Natural Science (Botany 1, 2; Chemistry, 1; 2; Geology 1, 2; Physics 1, 2; Zoology 1, 2).		8 hours.
(c)	One Ancient Language 8	8 hours each from each of these three	16 hours.
(d)	One Modern Language 8		
(e)	Mathematics 8		
(f)	History 1		4 hours.
(g)	Physical Training		2 hours.

Exemptions

Students who present a sufficient amount of entrance credit in the subjects listed under (c), (d), (e) may be relieved wholly or in part from these requirements. The exemptions are as follows:

(c) Four units of Latin will relieve from 8 hours ancient language.
Three units of Latin will relieve from 4 hours ancient language.

(d) Two units of one modern language will relieve from 8 hours modern language.
One unit of one modern language will relieve from 4 hours modern language.

The units in modern language must be in addition to the two units of foreign language required for admission.

(e) Three and one-half units of mathematics will relieve from 8 hours mathematics.
Three units of mathematics will relieve from 4 hours mathematics.

II. Major and Minor Subjects

At the beginning of his sophomore year each student must choose a major study. The major may be chosen from any department offering sufficient work. The head of the department in which the major lies becomes the student's official adviser and has general oversight of his work throughout the remainder of his course. The student wishing to major in a department must make written application on a blank provided by the registrar, to the head of the department. This application, when approved by the dean of the college and the head

of the department, must be filed with the registrar. The work in the major study must consist of:

(a) At least 20 hours in major department, accepted for major credit.

(b) At least 12 hours in a closely related subject within the same group as the major subject.

The major professor may require a thesis to be written under the following conditions:

At the beginning of his senior year, i. e., at the first enrollment after he has completed ninety hours, the student must file with the registrar a subject for a thesis, approved by his advisory professor, upon some phase of his major work. The finished thesis must be submitted to the professor in charge not later than the first Monday in May, and two copies of the thesis, bound in an acceptable manner and according to the required specifications, shall be filed with the librarian. Four hours' credit is given for this thesis.

III. Group Electives

The major student must complete at least 8 hours in a department in each of the two groups that do not contain the major study.

The groups are as follows:

Group I. The Languages: English, Greek, Latin, German, French, Spanish, Italian.

Group II. Mathematics and Natural Sciences: Anatomy, bacteriology, botany, chemistry, geology, mathematics, pathology, physics, physiology, zoology.

Group III. The Social Sciences: Economics, education, history, philosophy, political science, sociology.

IV. Free Electives

In addition to the requirements of prescribed courses, major and minor studies, and group electives, the student, subject to the approval of his adviser, shall choose enough other courses to bring the total number of hours up to 124, but not more than a total of 40 hours in any department shall be counted toward a degree.

ADVISERS TO STUDENTS

At the time of his registration each freshman student in the College of Arts and Sciences is assigned to a member of the advisory committee who is his adviser until his major subject is chosen.

The relation of the student adviser to the freshmen assigned to him shall be as far as possible, that of a friendly counselor, ready at all times to assist by encouragement, advice or warning, to the end

that the student may be directed along lines of high ideals in scholarship and right living.

STUDENTS FROM OTHER COLLEGES AND UNIVERSITIES

Students from other schools who receive advanced credits for 90 hours and are unable to choose a major will be under the control of the dean of the college. Such students will be required to select at least two-thirds of the work necessary to complete their course from courses for undergraduates and graduates.

ELECTIVES FROM OTHER SCHOOLS IN THE UNIVERSITY

A student may elect and count toward the Bachelor of Arts degree subjects given in any one of the other colleges and schools of the university as follows:

College of Engineering: Not more than 20 hours elected from the following courses: Mechanical Drawing 1, 2, 3; Civil Engineering 1, 2, 3, 53; Mechanics 151, 152, 153, 154, 155; Mechanical Engineering 1, 4; Electrical Engineering 51, 52, 53, 54, 164, 165, 178.

School of Fine Arts: Courses in the history and theory of music and the history of art, the total credit not to exceed 27 hours, of which 21 hours may be in music and 6 hours in art.

School of Law: A student who has 92 hours credit may under certain conditions elect from the subjects offered in the School of Law not to exceed 26 hours.

School of Medicine: Students who have completed as many as 60 academic hours in the College of Arts and Sciences and who can satisfy the entrance requirements may enter the School of Medicine, and on completion of the first two years' work will be recommended for the degree of Bachelor of Science (B. S.) in Medicine in the College of Arts and Sciences. Subjects given in the School of Medicine will not be counted in making up the 60 hours required in the College of Arts and Sciences.

In addition to satisfying the entrance requirements of the College of Arts and Sciences, the student must complete the prescribed work, the group electives, and the subjects prescribed for admission to the School of Medicine.

The following outline of courses will comply with these requirements:

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
Chemistry 1	4	Chemistry 2	4
Modern Language	4	Modern Language	4
Botany 1	4	Zoology 2	4
Physical Training	1	Physical Training	1
	17		17

Second Year

Physics 1	4	Physics 2	4
History 1	4	Physiology 1	4
*Mathematics or Ancient Language	4	*Mathematics or Ancient Language	4
General Psychology	4	Experimental Psychology	4
Physical Training	1	Physical Training	1
	17		17

*Students offering four units of Latin, or three and one-half units of mathematics, for admission may substitute modern language or other subjects.

FIELD WORK

At the discretion of the head of the department, credit not to exceed one hour for each two weeks spent in the field may be given in the departments of botany, geology, and zoology, provided the student enrolls for work which shall be outlined and carried on under suitable departmental direction.

SCHOOLS

In addition to the general elective courses, the College of Arts and Sciences includes three schools, namely: the School of Commerce and Industry, the School of Education, and the School of Journalism. For the purpose of enrollment the major professor and the director of the school shall be joint advisers. An outline of the work done in each of these schools is given below.

SCHOOL OF COMMERCE AND INDUSTRY

The School of Commerce and Industry is organized within the College of Arts and Sciences. Its purpose is to train students for a variety of commercial and industrial vocations. The courses offered aim to give a practical knowledge of business correspondence, business forms and documents, accounting (applied to private and governmental affairs), auditing, salesmanship, advertising, credits and collections, organization and management of business, partnerships and corporations, the principles and practices of banking and insurance, the value of the mineral and vegetable resources of the world, the processes of developing them, and the methods of marketing, manufacturing and transporting commercial products.

Admission: Students who wish to enter the School of Commerce and Industry must have completed two years' work in the College of Arts and Sciences. This work should include the prescribed courses, a major subject, a minor subject, and the group electives as specified under the College of Arts and Sciences. The major subject, the minor subject, and the group electives should be commenced in the sopho-

more year but may be completed after admission to the School of Commerce and Industry. The major subject should be economics.

Applicants twenty-one years of age or over, not candidates for a degree, may be admitted as unclassified students to such work as they are prepared to take.

The following outline of courses is recommended for the first two years:

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
Chemistry 1	4	Chemistry 2	4
Mathematics 5 or Ancient Languages	4	Mathematics 9 or Ancient Language	4
History 1	4	History 10	4
Physical Training	1	Physical Training	1
	17		17

Second Year

Economics 1	4	Economics 5	2
Sociology 1	4	Sociology 2	4
General Psychology	4	Geology 3 Economic Geology	4
Modern Language	4	Modern Language	4
		History 54	2
Physical Training	1	Physical Training	1
	17		17

Requirements for Graduation: Candidates for a degree in the School of Commerce and Industry will be required to complete the major and the minor subjects previously selected, to fulfill the group requirements, to take such courses in economics, political science and sociology as the director of the School of Commerce and Industry may approve, and in all other respects to comply with the requirements for graduation from the College of Arts and Sciences.

These requirements are met by the following outline of subjects.

Third Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Econ. 4 Money & Banking	4	Econ. 6 Labor Prob.	4
Philosophy 1 Gen. Psych.	4	Econ. 102 Insurance	2
Econ. 8 Business Adm.	2	Econ. 9 Bus. Adm.	2
Econ. 104 Rural Economics	2	Pol. Science 105	4
Modern Language	4	Modern Language	4
	16		16

Fourth Year

Soc. 102 Social Evolution	4	Econ. 5 Public Finance	4
Econ. 100 Industrial Comb.	4	Econ. 103 Statistics	2
Econ. 101 Transportation	2	Econ. 201 Econ. Seminary	4
Econ. 200 Econ. Seminary	4	Pol. Science 106	2
Botany 5 General Forestry	2	Botany 6 Industrial Botany	4
	16		16

SCHOOL OF EDUCATION

The School of Education is organized within the College of Arts and Sciences. Its purpose is to select and organize work done in the various departments of the university in such a way as to be most helpful to prospective teachers. The aim will be to fit persons for positions as high school teachers or principals, as teachers or supervisors of special subjects, as superintendents of city schools, and as instructors in normal schools and colleges.

Admission: Students who wish to enter the School of Education must have completed two years' work in the College of Arts and Sciences. This work should include the prescribed courses, a major subject, a minor subject and the group electives as specified under the College of Arts and Sciences. The major subject, the minor subject and the group electives should be commenced in the sophomore year but may be completed after admission to the School of Education. General psychology and educational psychology should be included in the electives of the sophomore year.

Applicants twenty-one years of age or over, not candidates for a degree, may be admitted as unclassified students to such work as they are prepared to take.

Requirements for Graduation: Candidates for a degree in the School of Education will be required to complete the major and the minor subjects previously selected, to fulfill the group requirements, to take at least twenty hours in education and psychology in addition to general psychology and educational psychology, and in all other respects to comply with the requirements for graduation from the College of Arts and Sciences. The professional work in education and psychology must include not less than four hours in psychology, four hours in history of education, four hours in principles of education and the courses in methods of teaching in the students' major and minor subjects.

Teacher's Certificate

The regulations of the State Board of Education provide that graduates of the School of Education who have complied with the special

requirements enumerated above and who are recommended by the faculty of the School of Education as possessing other qualifications which fit them for teaching, will be granted a teacher's life certificate valid in the public schools of the state.

This certificate may also be granted to persons who receive higher degrees from the university provided that in their undergraduate and graduate work combined they have complied with the professional and academic requirements enumerated above and have done at least 9 hours in education in this university.

For additional information concerning state certificates see General Information, "Certificates for Teachers".

Recommendation of Teachers

The Committee on Recommendations collects data concerning graduates and students who desire to teach in Oklahoma for the purpose of assisting superintendents and school boards as far as possible in the proper selection of teachers.

Those interested in securing teachers or positions should address the Committee on Recommendations, Norman, Oklahoma.

SCHOOL OF JOURNALISM

The School of Journalism is organized within the College of Arts and Sciences. Its purpose is to prepare students for the profession of journalism and to permit them, at the same time to obtain a college degree. The work in journalism is not separate and independent, but it is based upon and accompanied by the study of fundamental and allied subjects.

Admission: Students who wish to enter the School of Journalism must have completed two years' work in the College of Arts and Sciences. This work should include the prescribed courses, a major subject, a minor subject, and the group electives as specified under the College of Arts and Sciences. The major subject, the minor subject and the group electives should be commenced in the sophomore year, but may be completed after admission to the School of Journalism. Journalism 1 and 2 should be included in the electives of the sophomore year.

Applicants 21 years of age or over, not candidates for a degree, may be admitted as unclassified students for such work as they are prepared to take.

Requirements for Graduation: Candidates for a degree in the School of Journalism will be required to complete the major and the minor subjects previously selected, to fulfill the group requirements, to take 16 hours in journalism in addition to Journalism 1 and 2, and

in all other respects to comply with the requirements for graduation from the College of Arts and Sciences.

By this arrangement the student will begin his professional courses in journalism in the sophomore year, and will complete 24 hours of journalism in the period of three years. It is recommended that the free electives be selected from the social science group (economics, education, history, philosophy, political science, sociology) or from the language group (English, Greek, Latin, German, French, Italian, Spanish). In addition to developing their powers of composition and familiarizing themselves with the technique of journalism; the students should secure a broad and thorough understanding of social industrial and historical conditions, and acquire a knowledge of the literature of their own language and that of other languages.

Below may be found an outline of the work recommended to students who desire to plan their whole course with a view to the pursuit of journalism as a profession.

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
Natural Science, Botany 1, or Chemistry 1, or Geology 1, or Physics 1, or Zoology 1.	4	Natural Science, Botany 2, or Chemistry 2, or Geology 2, or Physics 2, or Zoology 2.	4
Two courses out of the three groups following:		Two courses out of the three groups following:	
Ancient Languages: Latin or Greek	4	Ancient Languages: Latin, or Greek	4
Modern Languages: French, or German, or Spanish, or Italian	4	Modern Languages: French, or German, or Spanish, or Italian	4
Mathematics	4	Mathematics	4
Physical Training	1	Physical Training	1
	17		17

Second Year

History 1	4	Free Electives	4
Major Subject	4	Major Subject	4
Group Electives	4	Group Electives	4
Journalism 1	4	Journalism 2	4
Physical Training	1	Physical Training	1
	17		17

Third Year

Major Subject	4	Major Subject	4
Minor Subject	4	Minor Subject	4
Group Electives	4	Group Electives	4
Journalism	4	Journalism	4
	16		16

Fourth Year

Major Subject	4	Major Subject	4
Free Electives	4	Free Electives	8
Journalism	4	Journalism	4
Minor Subject	4		
	16		16

Student Publication: Students in journalism are offered many opportunities for practical experience in journalistic work. In addition to The News Journal and The News Letter, (university publications upon which students will be given practice), the journals published by the students themselves, namely, The University Oklahoman, formerly The Umpire, a semi-weekly newspaper ranging in size from four to eight pages, The University Magazine, a monthly literary periodical, and The Sooner, the junior annual, afford excellent opportunity for educational, reportorial and business practice.

The local correspondence for metropolitan papers gives practice and is usually remunerative to students interested in journalism.

DESCRIPTION OF COURSES

NOTE:—First semester courses are marked a. Second semester courses are marked b. Courses with no letter attached are given both semesters.

ANATOMY

Professor Turley, Professor Lane

Primarily for Undergraduates

Histology I. Normal Histology: See Histology 1, School of Medicine.

Zoology 103b. Vertebrate Embryology: See Zoology.

ASTRONOMY

Professor Reaves, Associate Professor Kent

Primarily for Undergraduates

Astronomy Ib. Elementary Astronomy: From lectures and the text the student will be given a general review of the subject, and the class room work will be supplemented by direct observation of the sky. This is a course for beginners and does not require mathematics. (Given in alternate years. Given in 1914-15). Associate Professor Kent. 4 hours.

BACTERIOLOGY

Professor Ellison, Professor Turley, Assistant Professor Hamner

The work in this department is designed to meet four requirements, viz., general culture, a preparation for research, a more detailed knowledge of certain important organisms than is given in the biological courses, and a training in the essentials for the practice of medicine. The courses are open to all students of college rank on the approval of the instructor in charge.

Bacteriology 1 is required of students of medicine.

Bacteriology 1, 2, and 3 may not be counted as major work.

Courses in pathology may be combined with bacteriology for major work.

Primarily for Undergraduates

Bacteriology 1a. General Bacteriology: This course includes a detailed study of the more important forms of pathogenic and non-pathogenic organisms with methods of their isolation from body fluids, water, foods, etc., and their relation to human life. Lectures, laboratory, assigned readings, and reports. Muir and Ritchie, and Heinneman. Required of medical students. Lectures and laboratory. Deposit required. Professor Ellison. 5 hours.

Bacteriology 2a. Domestic Bacteriology: A study of the principles of bacteriology; the relation of micro organisms to domestic science; the relation of micro organisms to disease, and the means of dissemination of disease producing organisms. This course is designed especially for students in domestic science, and for teachers. Lectures, demonstrations, and assigned readings. Deposit required. Professor Ellison. 3 hours.

Bacteriology 3a. Sanitary Bacteriology: A study of the fundamental bacterial activity; the analysis of water, soil, and milk, the testing of disinfectants; a study of septic tanks and the problems of public sanitation. This course is designed especially for students in engineering. Not open to students in medicine. Laboratory, conferences, and lectures. Deposit required. Professor Ellison. 4 hours.

Bacteriology 5a. Pharmaceutical Bacteriology: A study of the fundamental principles of bacteriology, the relation of bacteria to disease, the study of the specific micro organisms of disease; immunity and serum therapy; the preparation and standardization of bacterines, serums, and antitoxins; and disinfectants. This course is designed especially for students of pharmacy. Lectures, assigned readings and demonstrations. Professor Ellison. 2 hours.

For Undergraduates and Graduates

Bacteriology 101b. Bacteriological Analysis: Laboratory course with lectures verifying the methods of water, soil, food, air, body-fluids, and sewage analyses; the standardization of disinfectants; and public sanitation. Prerequisite, Bacteriology 1. Deposit required. Professor Ellison. 4 hours.

Bacteriology 102a. Research Bacteriology: The student will pursue a definite line of research on a subject of bacteriology selected after a consultation with the instructor in charge. This course is open to all students of the university who have the necessary prerequisites, and is designed especially for those who take major work in bacteriology. Laboratory, conferences, assigned readings, and reports. Deposit required. Prerequisite, Bacteriology 1. Professor Ellison. 4 hours.

Bacteriology 103b. Research Bacteriology: A continuation of Bacteriology 102. Deposit required. Professor Ellison. 4 hours.

BOTANY

Professor Van Vleet

Botany 1 and Botany 2 are introductory, and satisfy the requirements of Group II. Work may begin with either course, and both courses are general electives for those not using them to satisfy the group. Botany 1 also satisfies the entrance requirement in botany for medical students.

Primarily for Undergraduates

Botany 1a. General Botany: Instruction in this course is divided into two periods. The first period extends from the beginning of the semester to the middle of November. The second period includes the remainder of the semester. 4 hours.

PERIOD 1. A general survey of the properties and activities of protoplasm, and of the life processes of plants, including photosynthesis, respiration, transpiration, absorption, conduction, digestion, nutrition and growth. Four recitations and four hours laboratory.

PERIOD 2. A study of representative forms of thallophytes, bryophytes, and pteridophytes; special attention is given to methods of reproduction, the evolution of structure and function, life histories of the forms studied, with a comparative study of the groups. Two recitations and six hours laboratory. 4 hours.

Botany 2b. General Botany: A general review of the spermatophytes. Instruction in this course is divided into two periods. The first period extends from the beginning of the semester to the first of April. The second period includes the remainder of the semester.

PERIOD 1. General morphology of the spermatophytes. Special attention is given to reproduction and to the organization and structure of the plant members. Two recitations and six hours laboratory.

PERIOD 2. Ecology, and classification of the local angiosperm flora. In ecology, special attention is given to pollination and seed dispersal, factors of environment, plant formations, and laws of plant migration. In the classification of the angiosperms representative families are studied with drill in the use of the plant keys in the determination of species. Lectures, laboratory, and field excursions. 4 hours.

Botany 3a. Pharmaceutical Botany: A study of the general morphology and histology of plants. For students of pharmacy only. Lectures, text, and laboratory. 4 hours.

Botany 4b. Pharmaceutical Botany: Instruction in this course is divided into two periods. Period 1 extends from the beginning of the semester to the first of April. Period 2 includes the remainder of the semester. 4 hours.

PERIOD 1. A study of powdered drugs, their identification and

adulterations. Lectures, text, and laboratory.

PERIOD 2. Classification of spermatophytes, with special reference to those yielding vegetable drugs. Lectures, laboratory, and field work. 4 hours.

Botany 5b. General Forestry: A general presentation of the history, objects, methods, and economic importance of forestry. This course is designed especially for students of political economy and others who wish a general knowledge of the subject. Lectures and assigned readings. Open to all students of college rank except freshmen. 2 hours.

Botany 6a. Industrial Botany: A study of the origin, cultivation, and distribution of plants yielding products of economic value, the nature and use of these products, and the methods by which they are obtained from the plants; especially valuable to students of political economy. Open to juniors and seniors, and to others who have had Botany 1 or 2. Botany 6 may by special permission be counted as graduate work by those who have completed Botany 1 and 2. 4 hours.

For Undergraduates and Graduates

Botany 101a. Physiology and Ecology: A study of the principal physiological processes, viz., photosynthesis, respiration, transpiration, absorption, conduction, digestion, assimilation, nutrition, and growth; pollination, fertilization, reproduction and seed distribution; response to environment, and the origin of new forms by selection, mutation, hybridization and adaptation; grouping, invasion, succession, zonation. Open to students who have completed Botany 1 and 2. Four lectures and four hours laboratory or field work. 4 hours.

Botany 102b. Systematic Botany: A study of the development and genetic relationships of angiosperms. Opportunity is afforded students to become proficient in the determination of species and types. Lectures, laboratory, and field work. Open to students who have completed Botany 1 and 2. 4 hours.

Botany 103a. Dendrology: A study of the structure and characteristics of forest trees. Special attention is given to the native trees of Oklahoma. Lectures, laboratory, and field work. Open to students who have completed Botany 1 and 2. 2 hours.

Education 136a. Teachers' Course in Botany: Plant studies and methods. Intended primarily for teachers of botany in Oklahoma high schools. Discussions and illustrations of methods of teaching botany, directions for laboratory equipment, the collection, and preservation of material for class use. The aim is to present the subjects of nature study and botany as they should be taught in the public schools. 2 hours.

CHEMISTRY

Professor DeBarr, Associate Professor Williams, Mr. Porter, Mr. Monroe

Primarily for Undergraduates

Chemistry 1 may not be counted as major work.

Chemistry 1. General Chemistry; Laboratory and lectures with recitations. Students are required to use the chemicals and chemical apparatus of the laboratory in this course. Deposit required. 4 hours.

Section 1, first semester. Mr. Monroe.

Section 2, second semester. Mr. Porter.

Section 3, first semester. Mr. Monroe.

Second semester. Mr. Monroe.

Chemistry 2b. General Chemistry: Laboratory and lectures. Prerequisite, Chemistry 1. Deposit required. Mr. Monroe. 4 hours.

Chemistry 3a. General Chemistry: Laboratory and lectures with recitations. Prerequisite, one entrance credit in chemistry. Three lectures and one laboratory period of three hours. Deposit required. Associate Professor Williams. 4 hours.

Chemistry 4. Qualitative Analysis: Analysis of unknowns. Laboratory and lectures. Prerequisite, Chemistry 1 and 2, or 2 taken with 4. Mr. Monroe. 4 hours.

Chemistry 5. Quantitative Analysis: Volumetric and gravimetric estimations. Lectures and laboratory. Prerequisite, Chemistry 4. Deposit required. 4 hours.

First semester. Mr. Porter.

Second semester. Associate Professor Williams.

Chemistry 51a. Electro-Chemistry: This course takes up the elements of physical chemistry. Theory of electrolytic dissociation, migration of ions, conductivity of solutions, electromotive force, electrolysis, and some of the applications of electro-chemistry. Prerequisite, Chemistry 4, Physics 2, and Mathematics 17. Lectures and recitations and one laboratory period of 3 hours. Deposit required. Associate Professor Williams. 4 hours.

Chemistry 61a. Household Chemistry: This course is for women only. Professor DeBarr. 2 hours.

Chemistry 62b. Household Chemistry: A continuation of 61a Professor DeBarr. 2 hours.

For Undergraduates and Graduates

Chemistry 101a. Advanced Qualitative Chemistry: Continuation of Course 4. Deposit required. Mr. Monroe. 4 hours.

Chemistry 102b. Advanced Quantitative Analysis: Continuation of Chemistry 5. Associate Professor Williams. 4 hours.

Chemistry 103a. Inorganic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4. Deposit required. Mr. Porter. 2 hours.

Chemistry 104a. Assaying: This course deals with the estimation of iron, lead, copper, silver, zinc, etc., by the wet way, and of gold and silver by the use of fluxes and other reagents. Prerequisite, Chemistry 5. Deposit required. Mr. Porter. 4 hours.

Chemistry 105b. Water Analysis: A study of sanitary, sewage, and mineral waters. Prerequisite, Chemistry 5. Deposit required. Mr. Monroe. 4 hours.

Chemistry 106b. Iron, Steel, and Coal Analysis: A study of iron, coal, and steel used in commerce and for domestic purposes. Prerequisite, Chemistry 5. Deposit required. Mr. Porter. 4 hours.

Chemistry 107a. Research Chemistry: This course deals with gypsum and other mineral products of Oklahoma. Lectures and recitations with laboratory. Prerequisite, Chemistry 5. Deposit, required. Mr. Porter. 5 hours.

Chemistry 108b. Research Chemistry: Prerequisite, Chemistry 5. Deposit required. Mr. Porter. 5 hours.

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisite, Chemistry 4. Professor DeBarr. 4 hours.

Chemistry 122b. Organic Analysis: Analysis of alkaloids and organic acids. Examination of fat and oils. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 4 hours.

Chemistry 123b. Organic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4, 121, and German 2. Deposit required. Mr. Porter. 2 hours.

Chemistry 124b. Physiological Chemistry: Physiological analysis. Lectures and laboratory. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 5 hours.

Chemistry 125b. Toxicology: A study of poisons. Lectures and laboratory. This course embraces a study of the symptoms, post-mortem appearances, antidotes attendant upon poisoning, and the recovery of the poisons from the various organs of the body. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 2 hours.

Chemistry 126. Chemistry and Composition of Food Products: A study of food-stuffs and their adulteration. Lectures, recitations, and laboratory. Prerequisite, Chemistry 121. A student may take this course more than once and receive credit each time.

provided the work is not duplicated. Deposit required. 5 hours.

First semester. Professor DeBarr.

Second semester. Mr. Porter.

Chemistry 151a. Elementary Physical Chemistry: Lectures and recitations. This course deals with such topics as the gas laws, kinetic theory, phase rule, theory of electrolytic dissociation, etc. This course should be taken with or followed by Chemistry 142. Prerequisite, Chemistry 4, 5, and one year of college physics. Walker's Introduction to Physical Chemistry. Associate Professor Williams. 4 hours.

Chemistry 152. Elementary Physico-Chemical Measurements: A laboratory course that must be taken with or after Chemistry 151. Molecular weight determinations by vapor density, freezing and boiling point methods, study of solutions, solubility, conductivity, transport numbers, etc. Deposit required. Associate Professor Williams. 4 hours.

Chemistry 153. Journal Course: Students in this course are required to read certain assignments in the current chemical journals, to make reports covering certain phases of present day chemical research, and write a two thousand word report on some live chemical topic. Open to students of chemistry with junior or higher standing. Professor DeBarr and Associate Professor Williams. 2 hours.

CLASSICAL ARCHAEOLOGY

Professor Paxton

Primarily for Undergraduates

Classical Archaeology 1, 3, and 4 may be counted as major work in Greek, and must be taken by those majoring in that subject.

Classical Archaeology 1a. The Private Life of the Greeks: Informal lectures and study of text-book on such topics as the family and clan, the name, marriage, marriage ceremonies, religion, childhood, education, slavery, classes in society, food, theatrical and other amusements, will be given and assigned. The course will be illustrated by numerous photographs and lantern slides. Monthly written reports, based on outside reading, are required. No knowledge of Greek is necessary. 2 hours.

Classical Archaeology 2b. The Private Life of the Romans: This course is similar to Classical Archaeology 1. The two courses are intended to be supplementary, but each is complete in itself. No knowledge of Latin is necessary. 2 hours.

Classical Archaeology 3a. Mythology of the Greeks and Romans: Fairbanks' Mythology of Greece and Rome will be used as a nucleus, and required readings in Gayley's Classical Myths in Eng-

lish Literature, Frazer's The Golden Bough, Lang's Myth, Ritual, and Religion, or similar works, will be assigned. Four or five informal lectures on art and mythology will be given, and the course will be freely illustrated by the use of the lantern and photographs. 4 hours.

Classical Archaeology 4b. Greek Sculpture: A course in the history, principles, and development of Greek sculpture. Tarbell's History of Greek Art must be in the hands of each member of the class, but the instruction will consist largely of formal and informal lectures, illustrated by photographs and the lantern. Required readings in Murray's The Sculptures of the Parthenon, Furtwaengler's Masterpieces of Greek Sculpture, Waldstein's Essays on the Art of Phidias. 4 hours.

ECONOMICS

Professor Dowd, Assistant Professor Adams, Professors Taylor, Van Vleet, Gittinger

Economics 1 and 2 may not be counted as major work.

Primarily for Undergraduates

Economics 1a. Elementary Economics: A treatment of the fundamental principles of the science. Gide's Principles of Political Economy. Assistant Professor Adams. 4 hours.

History 54b. Economic History of England: A study of the development of industry and commerce since the Norman Conquest. This course is designed to give a broad grasp of the principles involved in the development of economic institutions and incidentally to point out the bearing of this development on that of legal and political institutions. Professor Gittinger. 2 hours.

Economics 3b. Economic History of the United States: A study of the main economic problems that have confronted our country, their relation to the distribution of population, to politics, and social conditions. (This course is given in alternate years. Given in 1914-15). Assistant Professor Adams. 2 hours.

Economics 4a. Money and Banking: The work will consist of recitations, assignments, and lectures, and will be made as practical as possible. The rise, history, and development of the various banking and money theories are presented and discussed. White's Money and Banking, Report of the Monetary Commission. Assistant Professor Adams. 4 hours.

Economics 5b. Public Finance: A study of the general principles of public expenditure, public revenue, public indebtedness, and financial administration. Plehn's Public Finance, and assigned readings. Professor Dowd. 4 hours.

Economics 6b. Labor Problems: The conflicts between

employer and wage-earner; strikes, lock-outs, cooperation, profit sharing, arbitration, trade unions, employment of women, child labor, labor legislation, and the various plans for the betterment of the condition of workingmen. Each student will be assigned a subject for special study. Assistant Professor Adams. 4 hours.

Economics 7a. Economic Geography: A general survey of the natural resources, industries, and commerce of the leading nations, with special reference to the exports and imports of the United States. Trotter's Geography of Commerce, and collateral reading. Assistant Professor Adams. 2 hours.

Economics 8a. Business Administration: A study of legal forms, credit instruments, funding operations, accounting, and executive duties. Professor Dowd. 2 hours.

Economics 9b. Business Administration: A continuation of Economics 8. Supervision and auditing in connection with passenger transportation; light and power companies; insurance; jobbing; the commission business; brokerage; importing and exporting. Professor Dowd. 2 hours.

Botany 5a. General Forestry: See Botany 5a. Professor VanVleet. 2 hours.

Botany 6a. Industrial Botany: See Botany 6a. Professor VanVleet. 4 hours.

Geology 3b. Economic Mineralogy and Geology: See Geology 3b. Professor Taylor. 4 hours.

For Undergraduates and Graduates

Economics 100a. Industrial Combinations: The organization, promotion, operation, and finances of industrial combinations; their relation to the investor, the wage-earner, and the consumer. Meade's Trust Finance, and assigned readings. Each student will make a special study of an assigned subject. Assistant Professor Adams. 4 hours.

Economics 101a. Transportation: A study of the most important economic phases of railway transportation. Lectures, readings, and reports. Assistant Professor Adams. 2 hours.

Economics 102b. Insurance: A study of the problems of insurance of general interest, with special attention to life insurance. Assistant Professor Adams. 2 hours.

Economics 103b. Economic Statistics: The sources and reliability of statistical data; the methods of distinguishing true and false inferences. Special reference will be made to the statistics of present economic problems, and practice will be given in handling statistical data. Assistant Professor Adams. 2 hours.

Economics 104a. Rural Economics: This course deals with

the problems of credit, cooperative buying and selling, transportation, labor, insurance, etc., as affecting the rural population. Assistant Professor Adams. 2 hours.

Primarily for Graduates

Economics 200a. Seminary for Research: This course is to develop original investigation. Open to graduate and major students. Professor Dowd. 1 to 3 hours.

Economics 201b. Seminary for Research: A continuation of Economics 200. Professor Dowd. 1 to 3 hours.

EDUCATION

Professor Phelan, Professor Barrett, Professor Parsons

Philosophy 1 is a prerequisite to all courses in education, and should be elected in the sophomore year.

Some knowledge of logic, ethics, sociology, and biology is desirable for students doing regular work in education.

Primarily for Undergraduates

Philosophy 1a. General Psychology: Prerequisite for all courses in education. See Philosophy. Professor Phelan. 4 hours.

Education 2b. Educational Psychology: A study of the elements and principles of the learning process; the fundamental instincts and capacities and their relation to interest and attention; the individual differences of children; the organization of experience as habit and judgment, perception, imagination, memory, correlation of studies, analysis, reasoning, moral training, cultivation of emotions, motor expression, and motor training. Collateral reading, lectures, recitations, and reports. This course and Philosophy 1 satisfy the requirements of Group III. Klapper's Principles of Educational Practice. Professor Phelan. 4 hours.

Education 3a. History of Education: Ancient, mediaeval, and modern development of educational ideals and practices from a typical oriental civilization through Jewish, Greek, Roman, and early Christian civilization down to the Renaissance. The humanistic, realistic, naturalistic, scientific, psychological, and sociological phases of modern development of the educational aim. Lectures, reports, readings, and a thesis. Monroe's History of Education. Professor Barrett. 4 hours.

For Undergraduates and Graduates
Division A

Education 101b. Principles of Education: A course in the philosophy of education. The aims, ideals, and basis of effective teaching will be examined in the light of biology, psychology, and

sociology. The school will be studied as a social institution, with special regard to the ethics of democracy, and the institutions that educate. The nature of the curriculum will be determined with reference to the doctrine of formal discipline, and the elemental educative values. The relation of psychology to teaching will be shown in the problems of instinct, interest, habit, memory, perception, and inference. This is an introductory course. Collateral reading, lectures, recitations, and report. Ruediger's Principles of Education. Professor Barrett. 4 hours.

Education 102a. History of Secondary Education: The development of the American middle schools; comparison of American and foreign institutions; the course of study; methods; management. The course is planned to give a general view of the history and present status of secondary education in this country. Lectures, recitations, and a thesis. Brown's making of the middle schools. Professor Parsons. 2 hours.

Education 103b. Organization and Management of Secondary Schools: Importance and meaning of secondary school studies; their organization into a curriculum; method as applied to each subject; the resources at the command of the teacher. The following studies receive special attention: Latin and modern languages, history and English, science and mathematics. The moral element in education; the social organization of the high school; entrance requirements and the comparative study of high school reports. Lectures, recitations, readings, and a thesis. Professor Parsons. 2 hours.

Philosophy 104b. Genetic Psychology: Child study. See Philosophy. Professor Phelan. 4 hours.

Education 105a. Experimental Pedagogy: This course considers the motor, intellectual, and emotional development of childhood and youth. Problems of growth, play, fatigue, individual and sex differences are studied. Mental and social measurements are investigated, consisting of physical, motor, and sensory tests, and experiments in perception, association, suggestion, imagination, and memory. Rusk's Introducution to Experimental Education. Professor Phelan. 4 hours.

Education 106a. Pedagogy of Elementary Education: A course in grammar grade methods for superintendents and principals; special emphasis given to the child's process of learning and the method of the recitation. The aim is to familiarize the student with the correlation of the subject matter of the school curriculum, and the principles involved in the construction of a course of study. Discussion on the best methods of teaching arithmetic, language, history, geography, and science will be paralleled by observation work. Lec-

tures, required readings, writing of lesson plans, and text-book study. Professor Barrett. 4 hours.

Education 107b. Educational Classics: An advanced course in the history of education. From year to year it will consist of a critical study of the more important writings of the great educators of special periods. Lectures, readings, reports, and a thesis. Professor Barrett. 2 hours.

Education 108a. School Economy: A study of the problems of the school room for the high school teacher, principal, or superintendent. This course will consider the principles and practice of class room management, including such problems, as the prevention of waste of time and energy, discipline, methods, marking, records, reports, tests, and promotions; the general principles of physical and mental hygiene, a study of the hygienic conditions and surroundings which favor or retard development; and a comparison of the school laws of Oklahoma with those of other states. Lectures, recitations, readings, and reports. Professor Barrett. 4 hours.

Education 109b. Comparative School Systems: This course is designed to present the essential features of the school systems of the United States, England, Germany, and France; to compare these systems with each other; and to judge of the efficiency of each in the light of its respective educational aims and national ideals. Among the topics treated are organization, supervision, curriculum, methods of teaching, continuation schools, technical schools, universities, etc. Lectures, prescribed readings, and reports. Professor Barrett. 2 hours.

Education 110a. Principles of Moral Education: An examination of the nature of character development, and the application of the principles thus derived to the problems of character building confronting the teacher and parent. A study of moral values and the methods of moral instruction and training in the schools. Lectures, readings, discussions, and a thesis. Professor Phelan. 2 hours.

Education 111a. Sociological Phases of Education: This course is an inquiry into such recent movements in education as are for the betterment of conditions in child-life and make for social efficiency. Such topics as compulsory school attendance and child labor, medical inspections and health supervision of schools, school sanitation, vocational education, moral education; extension and continuation schools, standards of measurements, etc. Lectures readings, reports, and a thesis. Prerequisite, Education 3, Philosophy 1. Professor Barrett. 2 hours.

Education 112b. School Administration and Supervision: A course in the study of administration and supervision of public schools. A systematic study of actual conditions as revealed by school reports

of school mechanism, buildings, grounds, programs, hygiene, abnormal pupils, teacher's personality, library service, etc. The course is designed to prepare principals and teachers for supervisory positions. Special study of Oklahoma school law, personal observation of school systems, and critical reports. Professor Barrett. 4 hours.

Education 113. Educational Measurement: A survey of experimental and statistical investigations of school problems, comprising the Courtis tests in reading, writing, and arithmetic, Ayres and Thorndike tests in handwriting, the Hillegas tests in compositions and the Pearson tests in spelling.

This is a correspondence course in which students qualified by previous training will be assigned problems for experimental investigation in the public schools of the state. Professor Phelan. 2 hours.

Division B

The following courses in special methods of teaching are described in full under the respective departments.

Education 131b. Teacher's Course in English: Intended primarily for high school teachers of English. Prerequisite, English 1 and 2. See English. Professor Brewer. 2 hours.

Education 132b. Teacher's Course in Latin: Methods of teaching Latin; more difficult portions of third and fourth year Latin translated; syntax. See Latin. Professor Sturgis. 2 hours.

Education 133b. Teacher's Course in Mathematics: Attention is given chiefly to the organization and methods of presentation of algebra and geometry. See Mathematics. Professor Kent. 2 hours.

Education 134a. Teacher's Course in French: Methods of teaching French, analysis of high school texts. See French. Professor Dora. 2 hours.

Education 135b. Teacher's Course in German: Study and discussion of methods of teaching German in secondary schools. See German. Professor House. 2 hours.

Education 136a. Teacher's Course in Botany: For teachers of botany in high schools. See Botany. Professor VanVleet. 2 hours.

Education 137b. Teacher's Course in Zoology: Course designed for teachers of nature study in the public schools and zoology in the high schools. See Zoology. Professor Lane. 2 hours.

Education 138b. Teacher's Course in Public Speaking: Investigation of the methods of teaching public speaking in the high schools. See Public Speaking. Assistant Professor Tanner. 2 hours.

Education 139a. Teacher's Course in Music: Course for supervisors of music. See Music. School of Fine Arts. Associate Professor Dungan. 2 hours.

Education 140b. Teacher's Course in Music: See Music, School of Fine Arts. Associate Professor Dungan. 2 hours.

Education 141a. Teacher's Course in Physical Training for Men: Instruction in methods of teaching gymnastics and athletics. See Physical Training. Dr. Darling and Mr. Owen. 2 hours.

Education 142b. Teacher's Course in Physical Training for Men: A continuation of Education 141. See Physical Training. Dr. Darling and Mr. Owen. 2 hours.

Education 143. Teacher's Course in Physical Training for Women: Instruction in methods of teaching gymnastics and athletics. See Physical Training. Miss Revell. 2 hours.

Education 144b. Teacher's Course in Physical Training for Women: A continuation of Education 143. See Physical Training. Miss Revell. 2 hours.

Primarily for Graduates

Education 201a. Philosophy of Education: The course in advanced educational theory follows MacVannel's outline in the Philosophy of Education, and embraces such topics as the following: evolution and idealism as bases of education; personality and environment; the individual and society; moral institutions; democracy and education; the course of personal development; the school as a social institution; the course of study. Professor Phelan. 1 hour.

Education 202a. Seminary in Educational Psychology: Introductory work in the psychology of education is presupposed. Opportunity for research is provided. Subjects for the year: A study of individual differences; education of mental defectives; classification of backward children and moral deviates; retardation; elimination; and the psychological clinic. (Given in alternate years. Given in 1915-16.) Professor Phelan. 1 hour.

Education 203b. Current Educational Problems: The topics discussed will necessarily vary somewhat from year to year. An attempt will be made to study carefully the questions that are in the focus of consciousness of the educational public. Reports and class discussions based on current educational magazines, recent monographs, and educational publications. This course should be of special interest to teachers and advanced students of educational and social problems. Professor Phelan. 1 hour.

Education 204b. Seminary in Administration and Supervision of Education: A research course for advanced students who desire to investigate some of the larger problems in the sphere of the administration and supervision of public education. (Given in alternate years. Given in 1915-16). Professor Phelan. 1 hour.

ENGLISH LITERATURE AND LANGUAGE

Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Assistant Professor Tanner, Mr. Morgan, Mr. Herbert, Miss Berrigan

The work in English falls into three main divisions of composition, language, and literature.

The Division in composition includes courses 1, 2, 5, 16, 17, 117, 118, 119. Courses in argumentation belong to this division. Some study of literature forms a part of most courses in composition.

The history of the language, Old English, and Middle English are included in courses 15, 100, 101, and 102.

The division in literature is sub-divided as follows: Courses 3, 4, 11, 12, 13, 14, 108, 109, and 116 are concerned with movements and schools in English literature; while courses 105, 106, 107, 111, 112, 113, 114, and 115 have to do with the more intensive study of individual writers, or groups of writers.

English 1 is a prerequisite to all other courses in English.

English 1 and 2 are required of all candidates for the bachelor's degree. English 3 and 4 serve as a general introduction to English literature, and are recommended both to students who wish to do only limited work in English literature, and to those who wish merely to fulfill the group requirements in English.

English 3 and 4 are required of all who select English as a major subject. Majors in English are advised to do work in each of the three divisions—composition, language, and literature.

English 1, 2, 3, and 4, may not be counted as major work.

Primarily for Undergraduates

English 1a. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence. Daily and fortnightly themes. Required of all candidates for the bachelor's degree. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it.

The course is given in eight sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, Mr. Herbert and Miss Berrigan. 4 hours.

English 2b. First Principles of English Composition: Long and short themes at stated intervals. A study of selected examples of nineteenth century prose. Lectures on the use of words. English 2 is a continuation of and presupposes English 1. Required of all candidates for the bachelor's degree.

The course is given in eight sections. Professor Brewer, Professor

Hadsell, Assistant Professor Brooke, Mr. Morgan, Mr. Herbert and Miss Berrigan. 4 hours.

English 3a. English Literature from Spenser to Pope, 1575-1745: A study in movements, with special attention to the secondary dramatists of the Elizabethan age, to the literature of the Restoration, and to the rise of classicism. Lectures and readings. Professor Hadsell. 4 hours.

English 4b. English Literature from Dr. Johnson to William Morris, 1745-1896: A continuation of English 3, with special consideration of the decay of classicism, the romantic reaction, and the movements of nineteenth century literature. Lectures and readidgs. Professor Hadsell. 4 hours.

English 5a. Argumentation: Practice in analysis, testing of evidence, and argumentative style, brief drawing and the gathering and presentation of material for debates and argumentative themes. Assistant Professor Tanner. 4 hours.

English 16a. Advanced Composition: This course affords practice in the various kinds of writing to students who have passed English 1 and 2. It is intended primarily for sophomores. 2 hours.

English 17b. Advanced Composition: A continuation of English 16. Open also to students who have not taken English 16 but who have had sufficient preparation to do the work of the course. 2 hours.

English 11a. American Literature: A study of the literary productions of America, from the settlement of the colonies to the present time. Lectures and reports from assigned readings. Mr. Morgan. 4 hours.

English 12a. The English Bible: A study of the King James version of the Bible, from the point of view of literature. Lectures and assigned readings. Prerequisite, English 1. Assistant Professor Brooke. 2 hours.

English 13a. The Novel in the XIX Century: A study of the chief novelists from Scott to Hardy, with some account of contemporary fiction, and a special study of realism. (Given in alternate years. Given in 1915-16.) Professor Brewer. 3 hours.

English 14b. The Novel in the XVIII Century: A study of the structure and history of the novel from its beginnings to Scott. Lectures and library work. (Given in alternate years. Given in 1914-15.) Professor Brewer. 3 hours.

English 15a. Historical English Grammar: An outline history of the development of the English language, with an examination of the nature and extent of the English vocabulary. This course will be of interest to students who have completed English 2,

and to teachers of English. (Given in alternate years. Given in 1914-15.) Professor Hadsell. 4 hours.

For Undergraduates and Graduates

English 117a. Advanced Composition: A course in writing for students of junior, senior, or graduate rank. Particular attention is paid to the short story. Except in unusual cases the prerequisites are English 1, 2, 16, and 17. 2 hours.

English 118b. Advanced Composition: A continuation of English 117 with the same prerequisites. With the permission of the department this may be taken as an independent course. 2 hours.

English 119a. Advanced Composition: A course in writing intended for engineers and students in science of junior, senior, or graduate rank. Particular attention is given to the gathering and preparation of material and to the writing and criticism of scientific papers. Assistant Professor Brooke. 2 hours.

English 100a. Anglo-Saxon: An introduction to early English prose and poetry. Bright's Anglo-Saxon Reader. Professor Hadsell. 4 hours.

English 101b. Anglo-Saxon Poetry: Beowulf. The poem will be studied as a text, as a work of literature, and as a historical document. Prerequisite, English 100 or an equivalent. (Given in alternate years. Given in 1914-15.) Professor Hadsell. 4 hours.

English 102b. Middle English: An introduction to the study of Middle English prose and poetry. Prerequisite, English 100 or equivalent. (Given in alternate years. Given in 1915-16.) Professor Hadsell. 4 hours.

English 105b. Chaucer: A study of Chaucer's English and of his works as a whole. Lectures, reports, and a thesis. Professor Hadsell. 4 hours.

English 106a. Shakespeare: The early comedies, the chronicle plays, the later comedies, the tragedies, and the romances are studied in succession. Ten plays are studied in class and ten or more, together with the life of Shakespeare, are assigned for library reading. Students who have not had at least two years of English in college should secure permission of the instructor to enroll in this course. Lectures, readings, and reports. Professor Brewer. 4 hours.

English 107b. Shakespeare: In this course, a thorough study of several plays not studied in English 106 is made. This is a continuation of English 106 but it may be taken as an independent course. Lectures and library work. Professor Brewer. 4 hours.

English 108a. The Drama: A study of the rise and development of the drama from the earliest miracle plays to the close of the

sixteenth century. A seminary with lectures and assigned readings in the dramatic authors of this period, exclusive of Shakespeare. Discussions and reports. Prerequisite, English 3 and 4, and one other semester of elective English, preferably English 106. Assistant Professor Brooke. 4 hours.

English 109b. The Drama: This is a continuation of English 108, but with the permission of the department it may be taken as an independent course. A study of the progress of the drama to the closing of the theatres in 1642. Attention is paid to the Restoration and the later drama. Seminary with lectures, discussions, and special reports. Prerequisite, English 3, and 4, and either 108, or 106 or 107. Assistant Professor Brooke. 4 hours.

English 116b. The Modern Drama: A study of the principal English and European dramatists of the end of the nineteenth and of the beginning of the present century. Lectures and assigned readings. Mr. Morgan. 2 hours.

English 110b. American Literature: Special studies of representative American authors. Longfellow, Lanier, Poe, Whitman, Emerson, and Lowell were studied in 1913-14. Lectures, and recitations. Mr. Morgan. 2 hours.

English 111a. Early Nineteenth Century Poetry: In this course a study is made of the romantic poets from Wordsworth to Keats. Particular attention is paid to the romantic movement in English poetry. Professor Brewer. 4 hours.

English 112b. Tennyson and Browning: A study of the poetry of Tennyson and Browning and Arnold, and of the period in which these three poets were the dominant figures. Lectures and assigned readings. (Given in alternate years. Given in 1914-15.) Professor Brewer. 4 hours.

English 113b. Later Victorian Poetry: A study of Rossetti, Swinburne, Morris, with some attention to the verse of the minor poets of the period. Lectures and assigned readings. (Given in alternate years. Given in 1915-16.) Professor Brewer. 2 hours.

English 114a. Nineteenth Century Essayists: Studies, intended particularly for graduate students but open to seniors by permission of the department, in the essayists and journalists of the early part of the century. Special seminar studies are usually made in Lamb, Hazlitt, Leigh Hunt, and DeQuincey. Professor Brewer. 3 hours.

English 115b. Nineteenth Century Essayists: A continuation of English 114 with special studies in Macaulay, Carlyle, Ruskin, and the prose writers of the latter part of the century. Professor Brewer. 3 hours.

Education 131b. Teacher's Course: Intended primarily for

high school teachers of English, but open to juniors and seniors. The work will be practical, consisting chiefly of specimen studies of English and American classics, a review of the leading principles of composition, with practice in writing and correcting papers, and a survey of the methods of teaching English. Lectures, recitations, and exercises. Prerequisite, English 1 and 2, or their equivalent. Professor Brewer. 2 hours.

GEOLOGY

Professor Taylor, Professor Perrine, Professor Dwight, Mr. McCoy

Group requirements should be selected from Geology 1, 2, and 3.
Geology 1 and 2 are not accepted for major work.
If Geology 1 is elected, it should precede Geology 2 or 3.

Primarily for Undergraduates

Geology 1. Elementary Geology: A general introductory course. A study of the origin of the earth, its past and probable future; the chief rocks and minerals and the manner of their formation. destructive and reconstructive processes; crustal movements and mountain structures; vulcanism and metamorphism; a chronological study of the history of the earth, and of the development and evolution of life forms. A field excursion to the Arbuckle Mountains is included as part of the required work. Professor Perrine. 4 hours.

Geology 2b. Physiography: A study of the development of land forms and of the agents which produce them. Special consideration is given to the life history and work of streams, to glaciers, to the ocean, volcanoes, etc. The course includes a brief consideration of meteorology. A field trip to the Arbuckle Mountains is included as a part of the required work. Mr. McCoy. 4 hours.

Geology 3b. Elementary Mineralogy and Economic Geology: A megascopic determination of the more important rock-making minerals and ores. The occurrence value, and methods of recovery of the valuable minerals. A brief discussion of the origin, mineral and chemical composition, and classification of rocks. This course is designed to meet the needs of high school teachers and others not planning to take their major work in geology. Desirable antecedents: Chemistry 1. Professor Taylor and Mr. McCoy. 4 hours.

Geology 4b. Map Interpretation: A critical study of topographic and geologic maps. Special attention is given to accurate interpretation of maps showing typical physiographic forms and geolog-

ic structures. This course should be preceded by Geology 1 and 2. Professor Perrine or Mr. McCoy. 2 hours.

Geology 5a. Oklahoma Geology and Geography: The geology and geography of Oklahoma, with particular reference to the mineral resources, soils, water supply, climate, etc. Professor Taylor. 4 hours.

Geology 6b. Economic Geography of North America: A study of the distribution and value of minerals, building stone, soils, forests, water power, and crops of North America, and the consequent influence on industrial enterprises. This course will be of special value to teachers of geography as well as to students of geology. Prerequisite, a general knowledge of physiography. Desirable antecedents: Geology 1, 2, and Chemistry 1. Professor Taylor. 4 hours.

Mechanical Drawing 52b. Map Drawing: The preparation of base maps; lettering and printing. The preparation of geological maps in field and office. Open only to those who take their major work in geology. Professor Dwight. 2 hours.

For Undergraduates and Graduates

Geology 101a. Elementary Paleontology: A study of the principal classes of fossil invertebrate animals, from the biological standpoint, with respect to their form, structure, origin, range, distribution, and inter-relations. Lectures, supplemented by laboratory work with specimens. Prerequisite, Geology 1. Professor Perrine. 2 hours.

Geology 100b. Elementary Paleontology: A study of the development of life forms through the various geological periods from the stratigraphic standpoint, the aim being to familiarize the student with the characteristic fossils of each system. Lectures, supplemented by laboratory work in which each student makes specific determination of fossils. A field trip to the Arbuckle Mountains is required. Prerequisite, Geology 1. Professor Perrine. 2 hours.

Geology 102a. Crystallography and Mineralogy: A study of the laws of crystallization, and the classification of crystals. The physical properties, chemical composition, and mode of occurrence of minerals. Prerequisite, Chemistry 1. Deposit required. Professor Taylor and Mr. McCoy. 3 hours.

Geology 103b. Mineralogy: A continuation of Geology 102. Descriptive mineralogy and blowpipe analysis. Deposit required. Professor Taylor and Mr. McCoy. 3 hours.

Geology 104b. Economic Geology: A study of ore deposits with respect to their origin, mode of occurrence, and value. Also a study of oil, gas, coal, etc., with particular reference to their occurrence

and development in Oklahoma. Prerequisite, Geology 1, 3, or 102, and general chemistry. Professor Taylor. 4 hours.

Geology 105a. Continental Evolution: The principles of continental evolution based on the physical history of North America. Prerequisite, Geology 1, 2, and 100. Professor Perrine. 4 hours.

Geology 106b. Continental Evolution: A continuation of Geology 105; the nature of the work is the same. Professor Perrine. 4 hours.

Geology 111b. Paleontology of Oklahoma: Designed to give those who desire to do geologic work a knowledge of the characteristic fossils found in the state. Open only to those who in the judgment of the instructor are capable of pursuing the work with profit. (Given in alternate years. Given in 1914-15.) Professor Perrine. 2 hours.

Geology 112. Special Problems: Lectures and assigned readings on the chief problems of a general nature represented by North American geology and on certain technical questions, such as: the possible origin of the earth; the age and origin of the ocean basins; the possible causes of an ice age. Prerequisite, Geology 1 and 2. Professor Taylor. Credit Varies.

Geology 113. Field Work: Students who have had sufficient preliminary training may pursue systematic field work under direct supervision of the department. For this suitable credit will be given. The work will be planned for each individual. Professor Taylor and Professor Perrine. Credit Varies.

Primarily for Graduates

Geology 200a. Petrography: The principles of optical mineralogy and the determination of minerals under the polarizing microscope. Prerequisite, Geology 102. Professor Taylor. 4 hours.

Geology 201b. Petrology: A study of the origin and classification of igneous rocks; differentiation of rock magmas; metamorphism. Prerequisite, Geology 200. Professor Taylor. 4 hours.

Geology 202b. Advanced Paleontology: A continuation of Geology 101. Laboratory, field work, and assigned readings. Prerequisite, Geology 1, and 100, or 101. Professor Perrine. Credit Varies.

Geology 203b. Economic Geology: Advanced course. Special attention will be given to problems of genesis of ore deposits. Prerequisite, Geology 103, 104, and 200. Professor Taylor. 4 hours.

GERMANIC LANGUAGES AND LITERATURES

Professor House, Associate Professor Voss, Mr. Schmidt

German 1, 2, 3, and 4 may not be counted as major work.

Students of German are advised to take History 65a (History of Germany), and German major students will be expected to enroll for that course.

Primarily for Undergraduates

German 1a. Beginning German: Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Prerequisite, two years of foreign language. Spanhoofd's Elementarbuch and Bacon's Im Vaterland. Professor House, Associate Professor Voss, and Mr. Schmidt. 4 hours.

German 2b. Beginning German: Bacon's Im Vaterland continued. Continuation of Spanhoofd's Elementarbuch. Prerequisite, German 1. Professor House, Associate Professor Voss, and Mr. Schmidt. 4 hours.

German 3a. German Prose and Poetry: Two standard works such as Schiller's Wilhelm Tell and Freytag's Die Journalisten are read in class. One hour a week is devoted to the study of prose composition, and advanced syntax and drill in conversation accompanies each lesson. Osthaus and Biermann's Prose Composition and Voss and House's "Wie der Deutsche spricht." Prerequisite, German 1 and 2. Professor House and Associate Professor Voss. 4 hours.

German 4b. German Prose and Poetry: Reading and critical study of representative German ballads and lyrics. Dillard's Aus dem Deutschen Dichterwald and a prose text such as Heine's Harzreise. Study of Osthaus and Biermann's Prose Composition and Voss and House's "Wieder Deutsche spricht" continued. Reports upon assigned readings. German is the language of the class room. Prerequisite, German 1, 2, 3. Professor House and Associate Professor Voss. 4 hours.

German 5a. Classic German: Lessing and Schiller. Lessing's Emilia Galotti will be read in class, and the author's literary significance studied and discussed. Reports upon assigned readings will be received in class. One of Schiller's masterpieces will be studied in class, and an appreciative estimate of the author's position in German literature will be sought. Prerequisite, German 1, 2, 3, 4. (Given in

alternate years. Given in 1915-16.) Professor House. 4 hours.

German 6b. Classic German: Goethe. A systematic study of the life and writings of the author. Two of the plays will be read in class. Lectures in German and reports in German upon assigned readings. (Given in alternate years. Given in 1915-16.) Professor House. 4 hours.

German 7a. Nineteenth Century Literature: A study of German literary movements in the century. Lectures based upon assigned readings will be given in German. Special emphasis will be put on the importance of the romantic school. Parts of Grillparzer, Hebbel, Keller, and Storm will be read and studied in class. Prerequisite, same as for German 5. (Given in alternate years. Given in 1914-15.) Professor House. 4 hours.

German 8b. Nineteenth Century Literature: The novel and drama of more recent time will be studied. Reports upon outside readings. Lectures in German by the instructor. Representative authors, such as Sudermann, Hauptmann, Fulda, and others, will receive attention in class as well. Prerequisite, same as for German 5. (Given in alternate years. Given in 1914-15.) Professor House. 4 hours.

German 9a. Scientific German: The aim of this course is to afford students of the sciences an acquaintance with technical scientific nomenclature and style. Reading of German scientific texts and articles in current technical periodicals will be required of students. Prerequisite, German 1 and 2. Wait's German Scientific Reader. Professor House. 2 hours.

German 10b. Scientific German: A continuation of German 9. Reading of German scientific texts (Goeschen Sammlung) and articles in current technical periodicals. Brief lectures in German on various topics selected from the different sciences will be required from time to time to be given in the class by the student, the subject matter to be subsequently discussed in class. Professor House. 2 hours.

German 11a. German Conversation: A course intended primarily for students who wish to increase their facility in the use of the spoken language. Prerequisite, two years of German. Associate Professor Voss. 2 hours.

For Undergraduates and Graduates

German 101a. Historical Grammar of the German Language: Introductory lectures upon Germanic philology and a study of the historical changes in the development of modern German. Behagel's Die Deutsche Sprache. Prerequisite, German 1, 2, 3, 4, and either

5 and 6 or 7 and 8. (Given in alternate years. Given in 1915-16.) Associate Professor Voss. 4 hours.

German 102b. Middle High German: A study of Bachmann s Mittelhochdeutsches Lesebuch. Reading of selections from the Nibelungenlied and Gudrun. (Given in alternate years. Given in 1915-16.) Associate Professor Voss. 2 hours.

German 105b. History of German Literature: From the earliest times to the classical period. A general survey of German literature in its relations to the literatures of other nations and its development in connection with the political history, religious movements, and social conditions of Germany. Prerequsite, two years of German. Lectures, reports, and collateral reading. (Given in alternate years. Given in 1914-15.) Associate Professor Voss. 4 hours.

German 107b. History of German Literature: From Lessing to the present time. A continuation of German 105. Representative works will be read in English translations. Special emphasis will be laid upon the political, social, religious, and artistic ideals of the classic and romantic schools. Prerequisite, the same as for German 105. (Given in alternate years. Given in 1915-16.) Associate Professor Voss. 4 hours.

German 108a. Gothic: This course is intended as an introduction to philology. The Gothic language, because of its simplicity and regularity, is especially adapted to serve as a basis for the study of philology. The inductive method will be used, underlying laws in language development will be traced, and the inter-relation between the Indo-European languages will be shown with special emphasis on Modern and Old English, German, and Latin. This course is also recommended to advanced students of English. Braune's Gothic Grammar will serve as reader and for reference. Prerequisite, the same as for German 101. (Given in alternate years. Given in 1914-15.) Associate Professor Voss. 2 hours.

German 109b. Advanced Prose Composition: Translations, original compositions, letter writing. Special stress is laid on word order and proper use of idiomatic expressions. Osthaus and Biermann's Prose Composition. Prerequisite, the same as for German 101. (Given in alternate years. Given in 1914-15.) Associate Professor Voss. 2 hours.

German 110b. Phonetics: A study of speech sounds in German and English. Prerequisite, three years of college German. (Given in alternate years. Given in 1915-16.) Associate Professor Voss. 2 hours.

German 111a. Goethe's "Faust": An analytical study, with some consideration of its sources and of other literary treatments of

the same theme. Text, Calvin Thomas's edition. Pre-requisite, three years of college German. (Given in alternate years. Given in 1915-16.) Professor House. 2 hours.

Education 135b. Teacher's Course in German: Study and discussion of methods of teaching German in secondary schools, together with an analytic study of texts generally used in the first three years of German in high schools and normal schools. Review of grammar and practice in teaching. Prerequisite, three years' study of German. (Given in alternate years. Given in 1915-16.) Professor House. 2 hours.

GREEK

Professor Paxton

Greek 1, 2, and 3 are to be taken in the order named and are prerequisite for any of the succeeding courses except 10, 11, 12.

Greek 1, 2, 3, and 11 may not be counted as major work.

Classical Archaeology 1, 3, and 4 must be taken by those who take their major work in Greek, and may be counted as major work in the subject.

The Greek Grammar of Goodwin or Hadley and Allen should be in the hands of all students after the first term's work.

Primarily for Undergraduates

Greek 1a. Beginning Course: A careful drill in forms, accents, pronunciation, and elementary translation. Ball's Elements of Greek. 4 hours.

Greek 2b. Beginning Course (Continued): The text-book of Greek 1 will be completed and reviewed in part. Also the first book of the Anabasis. 4 hours.

Greek 3a. Xenophon: Anabasis; three more books read, and reviewed in part. Prose composition once a fortnight, with occasional oral drills. Reading in Grote. Some attention will be given to military antiquities. 4 hours.

Greek 4b. Lysias's Orations: Translation, some study of style, an elementary consideration of Greek legal procedure and of the Athenian Constitution. Text, Morgan. 4 hours.

Greek 5a. Homer's Iliad: Translation, scansion, a brief consideration of Homeric antiquities by references. Text, Seymour. 4 hours.

Greek 6b. Herodotus: The Persian Invasions of Greece. Plato's Dialogues may be substituted. 2 hours.

Greek 7a. Thucydides: The Sicilian Expedition. Readings in Grote. 2 hours.

Greek 10a. Greek Literature in English: A study of English

translations of representative Greek masterpieces. Prerequisite, English 1 and 2. Text, lectures, and required readings. 2 hours.

Greek 11b. New Testament Greek: A study of the Gospel of St. John. Prerequisite, Greek 1. 2 hours.

Greek 12a. Modern Greek: The modern language will be studied in text-book, newspaper, and by conversation. No knowledge of classical Greek is necessary. 4 hours.

Classical Archaeology 1a. The Private Life of the Greeks: See Classical Archaeology 3. 4 hours.

Classical Archaeology 3a. Mythology of the Greeks and Romans: See Classical Archaeology 3. 4 hours.

For Undergraduates and Graduates

Greek 100b. Selections from the Greek Drama. 2 hours.

Greek 101a. Aristophanes: One play will be read somewhat critically, one rapidly, and a third in translation. 2 hours.

HISTORY

Professor Buchanan, Professor Gittinger, Associate Professor Floyd, Professor Alley

The courses in history are listed in three divisions. The courses listed under A are primarily for freshmen and sophomores but are open for credit to juniors. The courses listed under B are primarily for juniors and seniors but may be taken by sophomores. The courses listed under C are also intended for juniors and seniors but are open for credit to graduate students.

Students entering with advanced credits equal to junior standing may upon the advice of the dean substitute History 55 or 56 for History 1.

History 1 may not be counted in fulfillment of the group requirements. Work listed under A may not be counted as major work.

Primarily for Undergraduates

Division A

History 1a. Institutional History: A general course including the study of the origin and development of American institutions. This course is planned as introductory to all the more advanced work in the social sciences. Professor Gittinger, Associate Professor Floyd, and Professor Alley. 4 hours.

History 9a. Mediaeval Europe: A survey of the period from the beginning of the middle ages to the close of the fifteenth century. Associate Professor Floyd. 4 hours.

History 10b. Modern Europe: The political, social, and in-

stitutional history of Europe from the opening of the sixteenth century to the present. Associate Professor Floyd. 4 hours.

Division B

History 51a. Early and Mediaeval England: The first half of a general course in English history. Professor Gittinger. 4 hours.

History 52b. Modern England: The second half of a general course in English history. Professor Gittinger. 4 hours.

History 54b. Economic History of England: A study of the development of industry and commerce in England. Prerequisite, Economics 1. Professor Gittinger. 2 hours.

History 55a. Political History of the United States: A general survey from the revolutionary era to the presidency of Jackson. Lectures, text-book, and collateral reading. This course should precede all advanced courses in American history. Professor Buchanan. 4 hours.

History 56b. Political History of the United States: A continuation of History 55, beginning with the presidency of Jackson and coming down to the present. Lectures, text-book, and collateral readings. Professor Buchanan. 4 hours.

History 57a. History of the American Colonies: The object of this course is to make a study of the development of the English political, social, and economic principles under American conditions. The work will be based on Thwaite's Colonies, Fisher's Colonial Era, and references to the accessible sources. Prerequisite, History 1 and 2. (Given in alternate years. Given in 1914-15.) Professor Gittinger. 4 hours.

History 59a. History of Greece: The oriental nations and Greece through the Persian invasions. The development and spread of Greek civilization to the Roman conquest. Professor Gittinger. 4 hours.

History 60b. History of Rome: A study of Roman origins and the development of Roman character. The growth of Roman power over the Mediterranean world and the foundation of the Empire. The first four centuries of the Christian era. Special attention will be given to the causes of the decay of ancient civilization. Professor Gittinger. 4 hours.

History 65a. History of Germany: A careful study of the politics, institutions, development of commerce and industry, and territorial expansion of the present German Empire will be made. Those students of the German language and literature who wish a general knowledge of German history will find this course especially helpful.

(Given in alternate years. Given in 1914-1915.) Associate Professor Floyd. 2 hours.

History 66b. History of France: The origin and history of the French people, their language, literature, constitutional development, religious wars, revolutions, and modern reforms will be treated in detail. This course is offered not only for special students of history but for those studying the Latin and French languages and literature as well. (Given in alternate years. Given in 1915-16.) Associate Professor Floyd. 2 hours.

History 67a. The Culture and Civilization of the Renaissance: A course dealing with the rise of Italian humanism and the spread of the Renaissance throughout Europe generally. Special attention will be given to the literature, religion, society, and art of the period. (Given in alternate years. Given in 1914-15.) Prerequisite, History 9 and 10. Associate Professor Floyd. 2 hours.

History 68b. The Era of the Reformation: A survey of the causes, events and consequences of the religious revolutions of the sixteenth century with special attention to the influence of the German reformation on politics and society. Attention will be directed to the political, social, and economic aspects of the time as well as to the religious changes. (Given in alternate years. Given in 1915-16.) Prerequisite, History 9 and 10. Associate Professor Floyd. 2 hours.

For Undergradutes and Graduates

Division C

History 101a. Eighteenth Century Europe: A careful study of Europe from the beginning of the eighteenth century to the close of the Napoleonic era. Special attention will be given to the political, social, and industrial conditions in England and France. Associate Professor Floyd. 4 hours.

History 102b. Recent History of Europe: A careful study of industrial conditions, existing constitutions, and political parties of Europe, including England, since the beginning of the nineteenth century. Lectures and readings. Associate Professor Floyd. 4 hours.

History 103b. Constitutional History of England: The development of English institutions. Prerequisite, History 51 and 52, or 9 and 10. (Given in alternate years. Given in 1914-15.) Professor Gittinger. 2 hours

History 105a. Hebrew History: A study of the Hebrew people from the beginnings to the time of Nehemiah. (Given in alternate years. Given in 1915-16.) Professor Gittinger. 2 hours.

History 106a. Territorial Expansion: This is an informal course requiring investigation into the geography of the United States

and tracing the successive additions to our territory from the beginning of the government down to the present. Prerequisite, History 55 and 56. Professor Buchanan. 2 hours.

History 108a. The West: A study of the westward movement of population, and the political and economic aspects of the development of the different sections. Lectures and collateral reading. Professor Buchanan. 4 hours.

History 109b. History of Oklahoma: This course begins with a brief survey of the history of the district now comprised in Oklahoma under its Spanish and French management, followed by a history of the Louisiana Purchase. The principal aim of the course, however, will be to trace the development of Oklahoma from the settlement of the five civilized tribes of Indians west of the Mississippi, the development of Oklahoma Territory, and the amalgamation of the two territories into one state. Professor Buchanan. 2 hours.

History 110b. Civil War and Reconstruction: The history of the United States from 1860 to 1875. Professor Buchanan. 4 hours.

History 111a. Seminar in Oklahoma History: A course affording opportunity for investigation in Oklahoma history. Students will be expected to investigate from the sources some topic in the History of Oklahoma and embody the result in written form. Professor Buchanan. 1 or 2 hours.

112b. Seminar in American History: A intensive study of selected topics in the political and institutional development of the United States. Professor Buchanan. 2 or 4 hours.

HYGIENE

Professor Ellison

Primarily for Undergraduates

Hygiene 1b. Principles of Hygiene and Sanitation: A course of lectures and demonstrations with assigned readings, taking up the subjects of ventilation, heating, food, digestion, disinfection, contagious diseases, water supplies, sewage, and sanitation, with methods of control and suppression of epidemics. Required of students of medicine. 3 hours.

JOURNALISM

Mr. Herbert

Journalism 1a. Newspaper writing: A course combining a study of the newspaper and its methods with actual practice in the simpler forms of news writing. Survey of the field of journalism; study of the newspaper field; newspaper organization; newspaper

terminology; contents of newspapers; news elements; news values; news sources; news gathering; qualifications of a reporter; structure and style of the news story. 4 hours.

Journalism 2b. Newspaper Writing: Continuation of Journalism 1. Kinds of reporting: fire, accident, and disaster stories; obituaries; police, court, and political reporting; reports of speeches, meetings, conventions, and legislature; railroad, market, and commercial reporting; sporting news; educational, religious, and civic news; social, musical, and dramatic reporting; interviewing; feature writing; human interest stories; the work of the correspondent. Prerequisite, Journalism 1. 4 hours.

Journalism 3a. Newspaper Editing: A course dealing with the presentation of news and the technique of newspaper practice. Rewrites and follow-up stories; newspaper office style; copy reading; mechanics of printing; technique of typesetting; proof reading; principles and practice of head writing; telegraph news gathering; telegraph news editing. Prerequisite, Journalism 1 and 2, or equivalent experience. 4 hours.

Journalism 4 b. Newspaper Editing: Continuation of Jouralism 3. Contents of newspapers; relative space and position of news; advertising and news; newspaper topography; make-up; the first page; the editorial page; feature material; lay-outs; illustrations; cuts and matrices; morgue and library; newspaper editions; make-over; extras; emergency make-up; news contingencies; handling big stories; duties and problems of editorial executives; the Sunday edition; special editions. Prerequisite, Journalism 3. 4 hours.

Journalism 50a. Principles of Advertising: A study of the science of advertising from the standpoint of its relation to the commercial world; relation of advertising to the distribution and marketing of goods; effect of advertising on the price of commodities; psychological principles underlaying advertising; study of the distinguishing characteristics of good advertising. 2 hours.

Journalism 51b. Practice of Advertising: Continuation of Journalism 50. Consideration of the different kinds of advertising matter; special forms of publicity; advertising media; methods of preparing, presenting, and testing the efficiency of advertisements of various kinds; special study of newspaper advertising; writing the advertisement; typographical display; preparation of the lay-out. Prerequisite, Journalism 59. 2 hours.

Journalism 100 a. News Feature Writing: A course dealing with the presentation of news in the form of feature stories. The feature story as a special form of news writing; its distinguishing characteristics; variety of subject matter; originality of treatment;

feature stories not based directly on news events, for publication in Sunday newspapers and magazines. Prerequisite, Journalism 1 and 2, or equivalent experience. 2 hours.

Journalism 101b. Editorial Writing; A course combining a study of the component parts of the editorial page with practice in the various forms of editorial writing. Study of editorial pages in typical American newspapers; cartoons; humorous columns; newspaper verse; syndicated features; press comments; editorial paragraphs; editorial articles; practice in the interpretation of the news and in the molding of public opinion through the paragraph and the editorial. Prerequisite, Journalism 1 and 2, or equivalent experience. 2 hours.

Journalism 102a. History of Journalism: A course dealing with the historical development of journalism, with special emphasis on its evolution in America. Particular attention is given to the development of those tendencies which characterize modern journalism; America's great journalists; their influence upon the profession. Open only to seniors. (Given in alternate years; given in 1914-15.) 2 hours.

Journalism 104b. Comparative Journalism: A study of the various types of American newspapers and a comparison of American newspaper standards with those of foreign countries. Intensive study of the elements which go to make up newspaper individuality—typographical appearance, stress upon certain classes of news, style of writing and presentation of news and editorial matter. Open only to seniors. (Given in alternate years; given in 1914-15.) 2 hours.

LATIN

Professor Sturgis

Latin 1, 3, and 4 are open to freshmen who have had Caesar.

Latin 1, 2, 4, and 5 may not be counted as major work.

Primarily for Undergraduates

Latin 1a. Cicero: Six orations of Cicero, with special attention to syntax. 4 hours.

Latin 2s. Vergil: Six books of the Aeneid. Some attention will be given to the subject of meter; but the chief aim will be idiomatic translation with a view to gaining an appreciation of the writer and an understanding of Vergil's place in literature. 4 hours.

Latin 3a. Latin Selections: Selections from representative Latin writers will be translated by the instructor. Members of the class will be asked to write out these translations in good English.

The course will be found helpful to students of Latin who wish to get a survey of Latin literature as a whole, and to students of English composition who find themselves unable to write clear and coherent sentences. Open to those who have read Caesar. 2 hours.

Latin 4a. Selections from Ovid and Sallust: Gleason's A Term of Ovid and Herbermann's Bellum Catilinae will be used. Study of verse and mythology, practice in reading at sight short extracts of poetry (elegiac) and prose. 4 hours.

Latin 5b. Livy: Melhuish, Books XXI, XXII, or selections from I, XXI, XXII. Readings in Mommsen. Elementary study of Roman military organizations. Studies in the style of Livy. 4 hours.

Latin 7a. Cicero's Essays: Two or more, with a study of sources and the author's philosophic style. Comparisons of modern essays on like subjects. 4 hours.

Latin 8b. Latin Literature in English: A study of masterpieces of Latin literature translated into English. Lectures, readings, and informal discussions. Prerequisite, English 1 and 2. 2 hours.

Latin 9b. Latin Writing: Composition work in this course is based on the orations of Cicero against Catiline. The course will be found helpful to students preparing to take the Rhodes Scholarship examination, to those intending to teach Latin, and to others who may desire a thorough drill in Latin syntax. Prerequisite, Latin 1. 2 hours.

For Undergraduates and Graduates

Latin 100b. Horace's Odes and Epodes: Smith. Study of meters. Reading of essays and monographs on Horace. The Satires and Epistles will occasionally be read instead of the Odes and Epodes. In that case a few of Juvenal's Satires will be read in addition. Papers on suggested subjects will be required. 4 hours.

Latin 101a. Plautus and Terence: Two plays will be read. Attention will be given to the history of Latin grammar and to the origin and development of the Latin drama. Prerequisite, Latin 4, 5, 7, and 100, or their equivalent. 4 hours.

Latin 102b. Tacitus: The Germania and Agricola, or extracts from the Annales, will be read. Attention will be given to disputed readings and to work in the history of Rome. Prerequisite, Latin 4, 5, 7, and 100, or their equivalent. 4 hours.

Latin 103a. Advanced Latin Writing: The first half of the semester will be devoted to a general review of Latin composition. The second half will be given to the study of the main differences between English and Latin, as regards idiom and style. 2 hours.

Latin 104b. Lucretius: Selected portions of the De Rerum Natura will be read. Special attention will be given to the philosophy of

Epicurus. The student will also be required to do some work in textual criticism. Open only to those who have had five years of Latin. 4 hours.

Education 132b. Teacher's Course in Latin: Methods of teaching Latin; more difficult portions of third and fourth year Latin translated; syntax. See Education. 2 hours.

MATHEMATICS

Professor Reaves, Associate Professor Kent

Mathematics 1 and 2 are required for admission to the College of Engineering and should preferably be taken in the high school. Students who select mathematics as one of their group electives are advised to take Mathematics 5 and 9 if they are prepared to do so, or else take Mathematics 2 and 9.

Mathematics 1, 2, 5, 6, and 9 may not be counted as major work.

Primarily for Undergraduates

Mathematics 1b. Solid Geometry: A brief review of portions of plane geometry followed by the usual propositions leading to the mensuration of solids. Associate Professor Kent. 2 hours.

Mathematics 2a. Algebra: A careful review of the fundamental principles followed by a study of exponents and radicals, theory of quadratics, graphs, systems of equations, complex numbers, ratio and proportion, progressions, logarithms, binomial theorem. Prerequisite, one year of algebra and one year of plane geometry. Associate Professor Kent. 4 hours.

Mathematics 5. College Algebra: Embracing the subjects of imaginaries, variables and limits, permutations and combinations, binomial theorem, series, undetermined coefficients, logarithms, determinants, and theory of equations. This course presupposes a minimum of one and one-half years in algebra. Four sections first semester and one section second semester. Professor Reaves, Associate Professor Kent. 4 hours.

Mathematics 6a. Trigonometry: This is a brief course intended primarily for engineering students, but open also to others. Two sections. Associate Professor Kent. 2 hours.

Mathematics 9b. Trigonometry: Derivation and use of formulas, solution of triangles, trigonometric equations and identities, graphs of functions, computations of logarithms, DeMoivre's theorem. Prerequisite, Mathematics 2 or 5. Three sections. Professor Reaves, and Associate Professor Kent. 4 hours.

Mathematics 14. Analytic Geometry: Equations and their

loci; transformation of coordinates; the straight line, circle, and other conic sections; general equation of the second degree; introduction to solid geometry. Prerequisite, trigonometry. One section, first semester, and two sections, second semester. Professor Reaves Associate Professor Kent. 4 hours.

For Undergraduates and Graduates

Mathematics 117. Calculus: Course in differential and integral calculus. Prerequisite, Mathematics 14. One section, first semester. Associate Professor Kent. One section, second semester. Professor Reaves. 4 hours.

Mathematics 118b. Calculus: A continuation of Mathematics 117 with numerous applications to practical problems. Associate Professor Kent. 4 hours.

Mathematics 122b. Differential Equations: Ordinary and partial differential equations with applications to geometry, physics, and mechanics. Prerequisite, Mathematics 117. (Given in alternate years. Given in 1915-16.) Associate Professor Kent. 3 hours.

Mathematics 125a. Theory of Equations: Prerequisite, Mathematics 14. Associate Professor Kent. 2 hours.

Mathematics 126b. Projective Geometry: Projective forms and relations, the principle of duality, anharmonic properties, involution, conics, problems and constructions. Text, Cremona. (Given in alternate years. Given in 1915-16). 4 hours.

Mathematics 131a. Advanced Calculus: A course based on Wilson's Advanced Calculus. Prerequisite, Mathematics 118. (Given in alternate years. Given in 1915-16.) 4 hours.

Mathematics 135a. Determinants and Solid Analytic Geometry: (Given in alternate years. Given in 1914-15.) Professor Reaves. 4 hours.

Mathematics 136b. Modern Analytic Geometry: Homogeneous coordinates, anharmonic ratio, curves of the second order and second class, poles and polars, Pascal and Brianchon theorems. (Given in alternate years. Given in 1914-15.) Professor Reaves. 4 hours.

Mathematics 141. Mathematical Seminary: The purpose of this course is to encourage junior and senior students in general mathematical reading of a somewhat advanced nature. The subject matter will vary from year to year, but will include some such subjects as the following: theory of numbers, higher algebra, higher plane curves, theory of functions. At hours to be arranged, either semester. Professor Reaves. 2 hours.

Education 133b. The Teaching of Secondary Mathematics: Attention is given chiefly to the organization and methods of presenta-

tion of algebra and geometry. Some of the topics considered are: unity of mathematical notions and topics: the relation of algebra and geometry to each other and to other studies of the curriculum. Educational purposes served by algebra and geometry in the modern high school; modernized problems and the sources of such problem material; methods of presentation of difficult topics; bibliography and other helps for teachers. Lectures, discussions, and recitations. Open to those who have had experience in the teaching of algebra and geometry and to prospective teachers who have completed college algebra. Associate Professor Kent. 2 hours.

PATHOLOGY

Professor Turley

The work in this department is designed to meet four requirements: general culture, preparation for research, a more detailed knowledge of certain important organisms than is given in the biological courses, and a training in the essentials for the practice of medicine. The courses are open to all students of college rank on the approval of the instructor in charge.

Pathology 1 is required of all students of medicine.

Pathology may be combined with bacteriology for a major.

Primarily for Undergraduates

Pathology Ib. General Pathology: A study of the abnormal functioning of the various organs of the body, the conditions producing diseases, the efforts of the body to overcome diseases and regenerate diseased tissues, disturbances in development, circulatory disturbances, retrogressive processes, progressive processes, inflammation, and secondary diseases. This course is the basis of advanced special, clinical, and diagnostic pathology. Lectures, recitations, and demonstrations showing gross and microscopic lesions in the human tissues. Required of all medical students; elective for others with prerequisite, Histology 1. Deposit required. Ziegler, and Mallory and Wright. 4 hours.

For Undergraduates and Graduates

Pathology IOIa or b. Special Pathology: A course of lectures and demonstrations with anatomical material illustrating the pathological processes of the several organs. Prerequisite, Bacteriology 1 and Pathology 1. 4 hours.

Pathology I02a. Research Pathology: The student will pursue a definite line of research on a subject of pathology selected after consultation with the instructor in charge. This course is open to all students of the university who have the necessary prerequisites, and is designed especially for those who take major work

in pathology. Laboratory, conferences, assigned readings, and reports. Deposit required. Prerequisite, Pathology 1, according to the nature of the subject chosen. 4 hours.

Pathology 103b. Research Pathology: A continuation of Pathology 102. Deposit required. 4 hours.

PHILOSOPHY AND PSYCHOLOGY

Professor Phelan, Professor Barrett

Primarily for Undergraduates

Philosophy 1a. General Psychology: This is a general introductory course aiming to give the student a survey of the main problems, principles, and methods of psychology, either as a part of a liberal education or as a preparation for professional study in education, medicine, or law. The following topics will be treated: sensation, perception, attention, habits, association of ideas, memory, imagination, conception, judgment, reasoning, instinct, emotion, volition, and personality. This is a prerequisite to all courses in psychology and education. Lectures, recitations, assigned readings, reports, and experimental work. Pillsbury's Essentials of Psychology. Professor Phelan. 4 hours.

Education 2b. Educational Psychology: See Education. Professor Phelan. 4 hours.

Philosophy 3b. Logic: An introductory study of real and formal logic, including the principles of argumentation, proof, and inference. The course begins with induction, takes up deduction and fallacies, and closes with a brief account of the philosophical problems involved in science of logic. Open to students who have completed at least one year of university work. Professor Barrett. 4 hours.

Philosophy 4a. Introduction to Philosophy: An outline study of the field of philosophical discussion, with an indication of its chief problems and methods of investigation. This course is open to students who have completed at least one year of university work. Fletcher's Introduction to Philosophy. Professor Phelan. 4 hours.

For Undergraduates and Graduates

Philosophy 101a. Experimental Psychology: Introductory course. Psychophysical methods, analysis of sensation, reaction, and study of the common senses. Lectures and work in the laboratory. (Given in alternate years. Given in 1914-15). Professor Phelan. 4 hours.

Philosophy 102b. Experimental Psychology: Special senses; space perception and illusions; higher intellectual process. Lectures

and work in the laboratory. (Given in alternate years. Given in 1915-16). Professor Phelan. 4 hours.

Philosophy 103b. Comparative Psychology: A description and interpretation of the instincts and intelligence of animals. Comparison of the conscious life of the higher animals with that of man. Prerequisite, Philosophy 1 or some other introduction to psychology. Professor Phelan. 4 hours.

Philosophy 104a. Genetic Psychology: A course in child study; special study of the child from birth to twelve years of age and of the psychology of youth from twelve years of age to manhood; a consideration of general heredity, the development of the nervous system and growth of the body as related to mental development, the nascent periods, the retardation periods, the development periods, imitation, psychology of play, emotion, associative memory, adolescence. Lectures, readings, reports, and a thesis. Professor Phelan. 4 hours.

Philosophy 105a. Abnormal Psychology: A general survey of the laws of abnormal mental phenomena. A study of such psychoses as throw light on the general and genetic problems of psychology. Disorders of sensation, memory association, emotion, and volition; order of failure of mental functions; some statement of heredity. Lectures readings, and a thesis. Prerequisite, Philosopy 1. (Given in alternate years. Given in 1915-16.) Professor Phelan. 2 hours.

Philosophy 106a. Social and Applied Psychology: An introductory study of the psychic factors and forces behind material and social progress. The application of psychology to business, medicine, theology, and law. Selected readings from Baldwin, McDougall, Wundt, Ross, etc. Lectures, reports, and thesis. Professor Phelan. 2 hours.

Philosophy 107b. History of Psychology: A general survey of the development of psychology in ancient, medieval, and modern thought. Aristotle, St. Augustine, Aquinas, Descartes, Locke, Kant, Lotze, and Wundt, will be studied intensively as representatives of distinct periods. Dessoir's History of Psychology. (Given in alternate years. Given in 1915-16.) Professor Phelan. 2 hours.

Philosophy 108b. The Psychology of Religion: The more important phenomena of religion are studied from the psychological point of view—such as the development of religion in the individual, belief, conversion, revivals, prayer, mysticism, etc. Lectures, assigned reading, and original research by the students. Senior and junior elective course. Prerequisite, Philosophy 1. Professor Phelan. 2 hours.

Philosophy 109b. Aesthetics: Preliminary study of the history of æsthetic theories from the Greeks to the present. Analysis and criticism of æsthetic principles and theories from the standpoint of

psychology. Reconstructive study of the theory of art, including the sense of beauty and the art impulse. Gordon's Aesthetics. Professor Phelan. 2 hours.

Philosophy 110a. History of Philosophy: A general survey of philosophic speculation from its beginnings among the Greeks to the present time. Special attention will be given to the Greek philosophy through Aristotle, and to the modern period from Descartes to Hegel. The characteristic features of each philosophical system, with its place and influence in the progress of human thought, will be shown. Collateral readings, lectures, recitations, and a thesis. Professor Barrett. 4 hours.

Philosophy 112b. Theoretical Ethics: Intended to aid in mastering the fundamental problems of life and character. First, a discussion of the nature and relations of ethics and an outline of the history of the chief ethical systems. Second, a critical study of the fundamental concepts of ethics with the aim of constructing a tenable theory of conduct. Seth's Ethical Principles. Professor Phelan. 4 hours.

Philosophy 113b. Practical Ethics: The application of theoretical principles of conduct to practical problems of life. Special consideration of duties, rights, temperance, charities, moral pathology, penology, ethics of relief. Textbooks, lectures, prescribed reading, and theses. (Given in alternate years. Given in 1915-16.) Professor Phelan. 2 hours.

Philosophy 114b. Epistemology: A systematic course, both critical and constructive, in the philosophy of knowledge. All the important problems of epistemology are considered: knowledge as a mental process, the relation of experience and reason, phenomenalism and epistemological realism, agnosticism and scepticism. Lectures, papers, and discussions. Professor Phelan. 2 hours.

Philosophy 115a. Metaphysics: An advanced course, dealing with the fundamental problems relating to the nature and connections of reality—the Soul, the World of Things, and the Absolute. The aim is to construct a consistent and tenable theory of reality. The two main present day tendencies in metaphysics will be considered at length, namely: 1. Absolute idealism in the writings of Bradley and Royce; 2. Radical empiricism in the writings of William James and his followers. (Given in alternate years. Given in 1915-16.) Professor Phelan. 2 hours.

Primarily for Graduates

Philosophy 201a. Seminary in Psychology: A critical study of some specific problem of psychology, such as the investigation of

the association of ideas or advanced work in comparative psychology with laboratory investigation on the psychology of learning. Professor Phelan. 2 hours.

Philosophy 202b. Problems in Philosophy: A seminary course of research in the historical and critical problems of philosophy. This course will introduce the problems of contemporary metaphysics. Professor Phelan. 2 hours.

PHYSICAL TRAINING

Director Darling, Mr. Owen, Miss Revell

The department of physical training provides physical recreation daily as a balance to the sedentary demands of university life and affords an opportunity to form a habit of exercise. The work is carried on under medical supervision, and every student is entitled to a careful physical examination, which furnishes data for prescribing exercises. Freshmen are required to take physical training throughout the year. They are taught the proper care of the body, and are given exercises which promote health, good posture, symmetrical development, and a reasonable degree of skill and grace. Advanced courses are elective for competent students who have finished the prescribed courses. On account of the mild winters of Oklahoma, much of the class work is carried on out of doors. The gymnasium is open from 9:00 a. m. till 6:30 p. m. and is at the disposal of students except during regular class periods. The director or an assistant is in constant attendance and advice or direction may be secured by any student at any time.

Physical training for women is under the supervision of a woman director. Instruction is given in personal hygiene and self-control, and exercises which promote graceful movements are given rather than exercises which involve mental or physical strain. The exercises consist of marching, calisthenics, rhythmic movements, folk and gymnastic games, conducted for the most part in classes to the accompaniment of music.

Athletics are taught by a regular member of the faculty and are so arranged as to give the largest possible number of students an opportunity to play. Instruction is given in football, basket-ball, baseball, tennis, track, and field work. Students who are physically competent are encouraged to play these games for their social and moral value as well as for the exercise. Athletics may be elected by students of special ability, with the consent and advice of the physical director, and credit secured for the prescribed courses.

Education 141 and 142 or 143 and 144; Are designed for high school teachers who do not expect to give all their time to physical

training, but who wish along with other branches to teach physical training, and coach athletic teams. In addition to the prerequisites named above, candidates should possess special qualifications for this work.

Courses for Men

Physical Training 1a. Marching, calisthenics, Indian clubs, and dumb-bells. Required of freshmen. Dr. Darling. 1 hour.

Physical Training 2b. A continuation of Course 1 with the addition of elementary work on heavy apparatus. Required of freshmen. Dr. Darling. 1 hour.

Physical Training 3a. Work on horizontal bars, parallel bars, horses, and mats. Elective for sophomores in the College of Arts and Sciences. Dr. Darling. 1 hour.

Physical Training 4b. A continuation of Physical Training 3. Elective for sophomores in the College of Arts and Sciences. Dr. Darling. 1 hour.

Physical Training 5a. Special training in wrestling, fencing, and advanced apparatus work. Elective for students of special ability who have completed the prescribed courses. Dr. Darling.

Physical Training 6b. A continuation of Physical Training 5. Elective for students of special ability who have completed the prescribed courses and Physical Training 5. Dr. Darling.

Physical Training 7a Athletics: Football, basket-ball, tennis. Elective for students who are physically competent. Dr. Darling and Mr. Owen. 1 hour.

Physical Training 8b. Athletics: Baseball, tennis, track, and field work. Elective for students who are physically competent. Dr. Darling and Mr. Owen. 1 hour.

Education 141a. Teacher's Course in Physical Training: Instruction in methods of teaching gymnastics and athletics. Lectures and practice in gymnasium work, free hand exercises, use of light apparatus, class management, and coaching in football and basket-ball. Prerequisites, Physical Training 1, 2, 3, 4, and two years of university work. Recitations and lectures. Dr. Darling, Mr. Owen. 3 hours.

Education 142b. Teacher's Course in Physical Training: Instruction in gymnastics and athletics. Lectures and practice in gymnasium work, use of heavy apparatus, class management, and coaching in tennis, baseball, and track. Prerequisites, Physical Training 1, 2, 3, 4, 9, and two years of university work. Recitations and lectures. Dr. Darling, Mr. Owen. 3 hours.

Courses for Women

Physical Training 51a. Calisthenics, marching, folk and gym-

nastic games. Required of freshmen. Miss Revell. 1 hour.

Physical Training 52b. Calisthenics, marching, Indian clubs, wands, and gymnastic games. Required of freshmen. Miss Revell. 1 hour.

Physical Training 53a. Advanced work with hand apparatus, Swedish, and German gymnastics. Fancy steps. Elective for sophomores in the College of Arts and Sciences. Miss Revell. 1 hour.

Physical Training 54b. A continuation of Physical Training 53. Elective for sophomores in the College of Arts and Sciences. Miss Revell. 1 hour.

Physical Training 55a. Fancy Indian club and heavy apparatus work, fencing. Elective for competent students who have completed the prescribed courses. Miss Revell.

Physical Training 56b. A continuation of Physical Training 55. Elective for competent students who have completed the prescribed courses. Miss Revell.

Education 143a. Teacher's Course in Physical Training; Instruction in methods of teaching physical training. Lectures and practice in marching, gymnastic dancing, free hand exercises, apparatus work, games, and class management. Prerequisite Physical Training 1, 2, 3, 4, and two years of university work. One hour lecture, two hours practice. Miss Revell. 2 hours.

Physical Training 144b. Teacher's Course in Physical Training: A continuation of Physical Training 143. Miss Revell. 2 hours.

PHYSICS

Professor Haseman, Mr. Riley

The work of the department of physics in planned to meet the needs of three classes of students:

(1) Students who desire a general knowledge of phenomena and fundamental principles of physics. Physics 1 and 2 and such other courses as students are prepared to enter are recommended to meet the needs of this class.

(2) Engineering students who desire in addition to a general knowledge a mathematical treatment of the fundamental principles and quantitative laboratory work in physics. Physics 51 and 52 are required of all engineering students and Physics 104 and 105 are required of students in the School of Electrical Engineering.

(3) Students who propose to teach physics or who desire to specialize in the department of physics. As a preparation for students who expect to teach physics in the secondary schools at least 16 hours of credit in the department is recommended. Students who de-

sire to specialize in physics may take Physics 1 and 2 or Physics 51 and 52 as a beginning course and the more advanced courses in the order described.

Primarily for Undergraduates

Physics 1a. General Physics: Mechanics, sound, heat. Lectures, recitations, laboratory, and assigned reading. A beginning course in college physics. Three class periods and one laboratory period. Professor Haseman and Mr. Riley. 4 hours.

Physics 2b. General Physics: Electricity, magnetism, light. Lectures, recitations, laboratory, and assigned reading. A beginning course in college physics. Three class periods and one laboratory period. Professor Haseman and Mr. Riley. 4 hours.

Physics 51a. Mechanics, Sound, Heat: Lectures, recitations, laboratory, and assigned reading. Four class periods and one laboratory period. Prerequisite, Trigonometry. Professor Haseman and Mr. Riley. 5 hours.

Physics 52b. Electricity, Magnetism, Light: Lectures, recitations, laboratory, and assigned reading. Four class periods and one laboratory period. Prerequisite, Trigonometry. Professor Haseman and Mr. Riley. 5 hours.

For Undergraduates and Graduates

Physics 100a. Advanced Physics: Lectures and recitations. An introduction to advanced physics. The fundamental properties of matter with the theory of such principles as are essential to advanced work in physics. The theory of measurements, the calculation of mean and probable errors, graphical methods, the essentials to the solution of problems. Prerequisite, Physics land 2 or 51 and 52, and Mathematics 14. Professor Haseman. 4 hours.

Physics 101a. Advanced Physics: A laboratory course including experiments on the accurate measurement of length, mass, and time; the measurement of acceleration, coefficient of friction, efficiency of a machine, moment of inertia, elastic constants, viscosity, surface tension, etc. Must be accompanied or preceded by Physics 100. Professor Haseman. 1 hour.

Physics 102b. Sound and Heat: Lectures and recitations. The theory of simple harmonic motion and wave motion in general with application to acoustical phenomena. A general discussion of fundamental heat phenomena followed by a study of the elementary principles of thermo-dynamics. Prerequisite, Physics 1 or 51. Professor Haseman. 4 hours.

Physics 103b. Sound and Heat: A laboratory course including experiments on vibration frequency, interference of sound waves,

law of vibrating bodies, coefficient of expansion, calorimetric measurements, vapor density, vapor pressure, mechanical equivalent of heat, the two specific heats of gases, etc. Must be accompanied or preceded by Physics 102. Professor Haseman. 1 hour.

Physics 104a. Electricity and Magnetism: Lectures and recitations. The general theory of potential, lines and tubes of force, fields of force, and influence of media as applied to electrostatics and magnetism. A study of the electric current with the theory of electromagnetism and electromagnetic apparatus. Prerequisite, Physics 2 or 52, and accompanied or preceded by calculus. Professor Haseman. 4 hours.

Physics 105a. Electricity and Magnetism: A laboratory course including experiments on accurate measurement of current, electromotive force, resistance, capacity, induction, hysteresis loss, calibration of electrical instruments, etc. Must be accompanied or preceded by Physics 104. Professor Haseman. 1 hour.

Physics 106b. Light: Lectures and recitations. A discussion of geometrical optics, followed by a study of the wave theory with special reference to the phenomena of interference, diffraction, dispersion, absorption, double refraction, and polarization. Prerequisite, Physics 2 or 52 and accompanied or preceded by calculus. Professor Haseman 4 hours.

Physics 107b. Light: A laboratory course including experiments on refraction; interference with bi-prism, double mirror, grating and interferometer; spectrum analysis with spectroscope; polorization with polarimeter; etc. Must be accompanied or preceded by Physics 106. Professor Haseman. 1 hour.

Physics 108b. Electricity: Lectures and recitations. The theory of electric oscillations and waves and their applications to wireless telegraphy. Electric conduction in gases, and radioactivity with special reference to modern theories of the constitution of matter. Prerequisite, Physics 104. Professor Haseman. 4 hours.

Physics 109ab. Advanced Laboratory: A laboratory course planned to give students an opportunity to do experiments not included in Physics 101, 103, 105, 107. Problems requiring special investigation will be assigned students who are prepared to do such work. Prerequisite, Physics 1 and 2 or 51 and 52. Professor Haseman. 2 hours.

PHYSIOLOGY

Professor Nice

Physiology 1 is not accepted for major work.

Physiology 1b. Elementary Physiology: A general course in physiology dealing with the various organs and tissues of the body. This course is planned especially for Arts and Sciences students who desire a general knowledge of the subject. Lectures, laboratory, demonstrations, and recitations. Deposit required. 4 hours.

Physiology 6a. General Physiology: A study of the functions of muscles, nerves, the central nervous system, and the special senses. Three lectures and two laboratory periods of three hours each per week; also eight special demonstrations of which the following are examples: motor localization in the cerebral cortex, the activity of a decerebrate pigeon and the activity of a spinal mammal. Required of medical students. Deposit required. 5 hours.

Physiology 7b. General Physiology: A study of the circulatory system, lymphatic system, body fluids and their regulation, digestive system, digestion, absorption, secretion, excretion, metabolism respiration, animal heat and its regulation. Three lectures and two laboratory periods of three hours each per week; also more than twenty special demonstrations of which the following are types: the function of the depressor nerve, the action of secretin and enterokinase, absorption from liver lymph channels. Required of medical students. Deposit required. 5 hours.

For Undergraduates and Graduates

Physiology 101a. Advanced Physiology: This course is planned for students and other properly qualified persons who wish to do advanced work or specialize in physiology. Each student is required to read classical papers in physiology and carry on an investigation under the direction of the instructor in charge. Prerequisite, Physiology 6 and 7 or their equivalent. 2 or 4 hours.

Physiology 102 b: Advanced Physiology: This is a continuation of Physiology 101. 2 or 4 hours.

POLITICAL SCIENCE

Professor Alley, Professor Foster

The courses in political science are designed as an aid to good citizenship and general culture and as a part of the preparation for the public service and the profession of law.

Primarily for Undergraduates

History I. Institutional History: Prerequisite for all courses in political science. See History. 4 hours.

Political Science 2a. General Political Science: A study of the nature of the state and of the structure and functions of government. Professor Alley. 4 hours.

For Undergraduates and Graduates

Political Science 100a. Constitutional Law: A study of the federal constitution as interpreted by the courts. Chiefly a discussion of leading cases. Professor Foster. 2 hours.

Political Science 101b. Comparative Government: A general study of the governments of Europe. Professor Alley. 4 hours

Political Science 102a. International Law: The general principles of the law governing the relations between states—the law of peace, the law of war, and the law of neutrality. Professor Alley. 4 hours.

Political Science 103b. American Diplomacy: Foreign policy of the United States, American contributions to international law. Open to students who have taken a course in international law. Professor Alley. 4 hours.

Political Science 104a. Administration: The organization, function, and practical working of administrative authorities in the United States, federal, state, and local. Open only to advanced students. Professor Alley. 2 hours.

Political Science 105b. Municipal Government: A study of American city governments. Open only to advanced students. Professor Alley. 2 hours.

Political Science 106b. Party Government: The organization, methods of action, and legal control of political parties in the United States. Open to students who have had Political Science 2 or 101. Professor Alley. 2 hours.

Primarily for Graduates

Political Science 200. Problems in Political Science: An introduction to independent investigation. Special problems according to the needs of the student and the material available for use. Open, with the consent of the instructor, to advanced students. Private conferences by appointment. 1 to 3 hours.

PUBLIC SPEAKING

Assistant Professor Tanner

The courses in public speaking are designed to give training along two general lines: first, interpretative reading and dramatic presentation; and second, composition and delivery of public addresses, debating, extemporaneous speaking, and oratory. The latter courses are listed below. The former courses are listed in the School of Fine Arts.

Primarily for Undergraduates

Public Speaking 1a. General Preparation: The fundamental principles of expression; correct and refined pronunciation, distinct articulation, the principles of gesture, pitch, tone, emphasis, and cadence. Two sections. 2 hours.

Public Speaking 2b. General Preparation: A continuation of Public Speaking 1, together with oratorical delivery. Two sections. 2 hours.

English 5a. Argumentation and Debating: See English. 4 hours.

Public Speaking 5a. Advanced Public Speaking: An advanced course in the delivery of standard orations. Prerequisites, Public Speaking 1 and 2. 2 hours.

Public Speaking 6b. Advanced Public Speaking: A continuation of Public Speaking 5. Together with the study of the rhetoric of an oration. 2 hours.

Public Speaking 15a. Debating: No credit except on completion of Public Speaking 16. Prerequisites for Arts and Science students, English 1 and 2. 2 hours.

Public Speaking 16b. Debating: A continuation of Public Speaking 15. 2 hours.

Public Speaking 17a. Effective Speaking: The aim of this course is to train the student to think logically on public questions, and to present his material in a clear, forceful manner before an audience. Prerequisites Public Speaking 1 and 2. 2 hours.

Public Speaking 18b. Effective Speaking: A continuation of Public Speaking 17. 2 hours.

For Undergraduates and Graduates

Education 138b. Teacher's Course: Investigation of the methods of teaching public speaking in the high schools. A discussion of the problems of contests in oratory, debating, extemporaneous speaking, and declamation. Organization of courses of study, fitted to the needs of the high schools of Oklahoma. For those who show special aptitude for the work. 2 hours.

ROMANCE LANGUAGES AND LITERATURES

Professor Dora, Assistant Professor Curtis,
Mr. Gimeno

FRENCH

Students may major in French or in Romance languages. For those who major in either French or Romance languages, French 1, 2, and 3 are required and do not count as major work. Italian 1 and 2 and Spanish 1 and 2 do not count as major work.

Primarily for Undergraduates

French 1a. Beginning French: Essentials of grammar, practice in colloquial French, prose composition, reading of easy texts. Special attention will be given to the French verb and to word order. Fraser and Squair's French Grammar, Super's French Reader, Merimee's Colomba, and Halevy's L'Abbe Constantin. Given in two sections. Professor Dora. 4 hours.

French 2b. Intermediate French: Systematic study of grammar, French conversation, sight reading, parallel work. Fraser and Squair's Grammar, Cameron's Contes de Daudet, Merimee's Carmen, Scribe et Legouve's Bataille de Dames. Given in two sections. Professor Dora. 4 hours.

French 3a. Romanticism: Selected works of Victor Hugo, George Sand, Alfred de Vigny, Theophile Gautier, Alfred de Musset, Lamartine, and Dumas. Class work will be conducted, as far as is practicable, in French. Themes will be written on assigned subjects. Prerequisite, French 1 and 2. Professor Dora. 4 hours.

French 4b. Romanticism: Continuation of French 3. Increasing use of French as the language of the class room. Topics assigned for original research. Comparative study of the romantic movement. French composition. Newton's French Daily Life, Vigny's Le Cachet Rouge, Hugo's La Chute. Prerequisite, French 3. Professor Dora. 2 hours.

French 5a. Realism and Naturalism: Balzac's Pere Goriot, Pailleron's L'Etincelle and Le Monde ou l'on s'ennuie, Labiche's La Cigale, Maupassant's Les Prissoniers, Zola's L'Attaque du Mouliu, Daudet's Le Petit Chose, Flaubert's Salammbo. Prerequisite, French 2. Professor Dora. May alternate with French 3. 4 hours.

French 6b. Victor Hugo: Study of life and representative works. Professor Dora. 2 hours.

French 7a. Rostand: A critical study of L'Aiglon, Les Romanesques, La Princesse Lointaine, La Samaritaine. Collateral reading of Chantecler, Cyrano de Bergerac, Un Soir a Hernani, etc. Reports,

lectures on contemporary authors. Prerequisite, French 4. Professor Dora. 2 hours.

French 8b. French Lyric Poetry: Canfield's French Lyrics. Study of the Parnassiens, Decadents, Symbolistes and contemporary writers. Hugo, A. de Musset, Verlaine, Lisle, Bourget, Daudet, Prudhomme, Gautier, Vigny, Rousseau, Lamartine. Prerequisite, French 4 or equivalent. Professor Dora. 2 hours.

French 10b. Maeterlinck: A study of the dramas and essays of this author, his mystical symbolism and influence. Le Tresor des Humble, Pelleas et Melisande, L'Intruse, Alladine et Palomides. La Mort de Tintagiles, L'Oiseau Bleu. Lectures and discussions. Open to students of sufficient preparation. Professor Dora. 2 hours.

French 12b. Balzac: Study of representative works in each group of La Comedie Humaine; influence upon contemporary novelists an upon the development of the novel during the latter half of the century. Professor Dora. 2 hours.

For Undergraduates and Graduates

French 100b. History of French Literature: Required of all major students. Fortier's Literature Francaise, Kastner and Atkin's History of French Literature, and reference work from Lanson's Literature Francaise. Special attention given to eighteenth century authors, Voltaire, Rousseau, Marivaux, Montesquieu, Beaumarchais, Le Sage. Students will write on completion of this course a monograph embodying the results of their work in certain assigned branches of the subject. Prerequisite, French 4. (Given in alternate years. Given in 1913-14.) Professor Dora. 4 hours.

French 101a. Classicism: Study of political, social, and literary history of the seventeenth century. Lectures upon the French salon, French Academy, and famous personages of the age. Corneille's Polyeucte, Horace, Le Cid; Moliere's L'Avare, Les Precieuses Ridicules, Les Femmes Savantes; Racine's Athalie, Iphigenie, Adromaque, Les Plaideurs. Prerequisite, French 4. Professor Dora. 2 hours.

French 103a. Seminar in French Literary Criticism: Sainte-Beuve, Renan, Taine, Brunetiere, France, and Faguet. Professor Dora. 2 hours

French 105a. Moliere; Life, comedies and influence upon 18th century drama. May be taken alone on with French 101a. Professor Dora. 2 hours.

French 104b. Seminar: Salons of the 17th and 18th centuries. Professor Dora. 2 hours.

Education 134b. Teacher's Course in French: Study of methods of teaching French in secondary schools. Analysis of texts

adapted to high school work. Special study of phonetics, with use of the Gersiri charts. Review of grammar; study of style; practice in teaching. (Given in alternate years. Given in 1915-16.) Professor Dora. 2 hours.

ITALIAN

Italian 1a. Elementary Italian: Grammar, composition, and reading of modern authors. Mr. Gimeno. 4 hours.

Italian 2b. Elementary Italian: Continuation of Italian 1. Mr. Gimeno. 4 hours.

SPANISH

Primarily for Undergraduates

Spanish 1a. Elementary Spanish: Constant drill in pronunciation, the conjugations, and spoken Spanish. Practice in writing from dictation. Reading of short stories of moderate difficulty. Elementary composition. Assistant Professor Curtis. 4 hours.

Spanish 2b. Intermediate Spanish: Reading of modern prose, such as selections from the writings of Alarcon's Galdos, Valdes, Bazan, etc. Study of special grammatical constructions. Assistant Professor Curtis. 4 hours.

Spanish 3a. Modern Spanish Literature: Portions of the prose and verse of Alarcon, Galdos, Pereda, Valera, Bazan. Fernan Caballero, Echegaray, and Nunez de Arce will be read. Parallel readings and reports. Assistant Professor Curtis. 4 hours.

Spanish 4b. Advanced Spanish Literature: Continuation of Spanish 3. Selected readings from Calderon, Lope de Vega, Tirso de Molina, and Cervantes' Don Quixote. Themes and special reports. Assistant Professor Curtis. 4 hours.

Spanish 5a. Composition: Systematic practice in speaking and writing Spanish. Spanish correspondence. Themes and essays in Spanish. This course may be taken to supplement Spanish 3. Assistant Professor Curtis. 4 hours.

Spanish 6b. Advanced Composition: A continuation of Spanish 5; it may be taken to supplement Spanish 4. Assistant Professor Curtis. 4 hours.

SOCIOLOGY

Professor Dowd, Assistant Professor Adams, Professors Paxton and Lane

Sociology 1 and 2 may not count as major work.

Primarily for Undergraduates

Sociology 1a. Elements of Sociology: A study of the factors that determine social life, such as climate, flora and fauna, and inherited psychological characteristics. The origin and development of

social institutions such as government, law, the family, economic organizations, religion, art, education, ceremonies and customs are investigated. Lectures and assigned readings. Professor Dowd and Assistant Professor Adams. 4 hours.

Sociology 2b. Practical Social Problems: A study of the application of general sociological principles to the solution of current problems. The subjects investigated are the slums of New York, London, Chicago, and Philadelphia; poverty, its causes and remedies; unemployment; the tenement house reform; municipal and domestic sanitation; pure food regulation; industrial education for the masses; the liquor traffic; social settlement work; the organization of charity; care of the blind, deaf, insane, and the sick; prevention, punishment, and reformation of crime, etc. Lectures and assigned readings. Professor Dowd. 4 hours.

For Undergraduates and Graduates

Sociology 100b. Criminology: A study of the causes, prevention, and treatment of crime, including an investigation into the hereditary, anthropometrical, psychological, and sociological factors; the relation of crime to genius and insanity; criminality and degeneracy among artists, musicians, painters, poets, inventors, and reformers; relation of crime to political and social conditions, epochs, occupation, sex, race, and climate, etc. Lectures and assigned readings. Professor Dowd. 2 hours.

Sociology 101a. Modern Race Problems: A study of the negro, Indian, Mongolian, and Jew, in the light of their racial origin and characteristics; the causes of race conflicts and the means of avoiding and remedying them. The object of this course is to discover the characteristics in each race which may be advantageously assimilated by all and those which require modification and elimination; to equip students who may enter commercial life, law, politics, and public service with such knowledge of these races as will make for the uplifting of each and the harmony of all. Lectures and assigned readings. Professor Dowd. 2 hours.

Sociology 102a. Social Evolution: A study of the development of society from the savage state to the present, in respect to the economic, familial, political, aesthetic, and religious life, racial heredity, physical and social environment as modifying factors. A comparative study is made of the civilization of the Mexicans, Egyptians, Greeks, Romans, French, Germans, and Americans. The main object is to ascertain the social causes and laws, and to apply the underlying principles thus discovered to whatever is abnormal or retrogressive. Professor Dowd. 4 hours.

Sociology 103b. Ethnology: A study of the human races, their

physical, intellectual, and social peculiarities. Origin and differentiation of races; the conflict and survival of races; influence of geographical and physical environment. Lectures and assigned readings. (Given in alternate years. Given in 1915-16.) Professor Dowd. 2 hours.

Sociology 104b. Anthropology: A study of man in the light of archaeology, physical anthropology, and sociology; his stature and proportions, form of head and development of brain; his mental and moral organization; the origin of his speech, language, writing, inventions, implements, musical instruments, songs, folklore, painting, drawing, sculpture, customs, ceremonies, etc. (Given in alternate years. Given in 1914-15.) Professor Dowd. 2 hours.

Classical Archaeology 1a. Private Life of the Greeks: Textbook and lectures, illustrated with photographs and lantern slides. See Classical Archaeology. Professor Paxton. 2 hours.

Classical Archaeology 2b. Private Life of the Romans: See Classical Archaeology, Professor Paxton. 2 hours.

Zoology 104a. Heredity and Variation: See Zoology. Professor Lane. 4 hours.

Primarily for Graduates

Sociology 200b. History of Sociological Thought: A study of the principal sociological writers in France, Germany, England, and the United States from the sixteenth century to the present. Professor Dowd. 2 hours.

Sociology 201a. Sociological Aspects of Art: A study of the origin and development of the fine arts among the different races and nations, investigations of the development of the characteristic national traits and the manner in which they are expressed in art; the relation of art to morals, to idealism, and to economic progress; the causes of degeneracy in art, etc. Professor Dowd. 2 hours.

ZOOLOGY

Professor Lane

The courses in zoology are planned to give the student a thorough knowledge and understanding of the fundamental facts and theories of the science so that he may be well equipped either for teaching or for investigation.

Zoology 1 and 2 are general culture courses designed to fulfill the group requirement and are prerequisite to all other courses in the department; they may not be counted as major work. The prospective high school teacher should take Zoology 1 and 2 as the minimum necessary for his preparation in this subject; in addition he will find it highly advantageous to pursue Zoology 100, 101, 102, 103, and Education

137. Zoology 1 or 2, satisfies the entrance requirement in Zoology for medical students.

Primarily for Undergraduates

Zoology 1a. General Zoology: A survey of the fundamentals and generalizations of the science of zoology with special regard to the laws of life, the relationships of living things, and such biological problems as are more or less intimately related to human progress and culture. The laboratory work consists of the study of a series of invertebrate types from the standpoints of structure, life history, and biological relations. Deposit required. 4 hours.

Zoology 2b. General Zoology: A continuation of the preceding course, but dealing with the vertebrates. The laboratory work consists of the study of the fish, frog, and such other types as the time may allow. May be taken by students who have not had Zoology 1. Deposit required. 4 hours

Zoology 100a. Invertebrate Zoology: An advanced study of the development, classification, and natural history of the invertebrates. Lectures, recitations, assigned readings, and dissection of a number of types of representative invertebrates. Deposit required. Prerequisite, Zoology 1 and 2. Parker and Haswell, Textbook of Zoology, Vol. I. and Drew, Laboratory Manual of Invertebrate Zoology. (Given in alternate years. Given in 1915-16.) 4 hours.

Zoology 101s. General Entomology: A study of the life histories, classifications, and economic relations of insects. Each student is required to make a collection and determine one hundred species of insects. Dissection of representatives of the principal orders. Deposit required. Prerequisite Zoology 1 and 2. Comstock, Manual for the Study of Insects. (Given only in summer.) 4 hours.

Zoology 102a. Vertebrate Zoology: An advanced study of the structure, classification, natural history, and paleontology of the vertebrates. Lectures, recitations, assigned readings, and dissection. Deposit required. Prerequisite, Zoology 1 and 2. Parker and Haswell, Textbook of Zoology, Vol. II, and various laboratory guides. (Given in alternate years. Given in 1914-15.) 4 hours.

Zoology 103b. Vertebrate Embryology: A study of the essentials of vertebrate embryology with special regard to organogeny in the chick, pig, and man; use is made of whole mounts of embryos, sections, dissections, and models. Deposit required. Prerequisite, Zoology 1 and 2. Kellicott, Chordate Development. 4 hours.

Zoology 104a. Heredity and Variation: A course of lectures, assigned readings, and reports on heredity and variation, including such topics as the physical basis of heredity, theories of heredity, Mendelism, law of ancestral inheritance, the practical application of

known principles of heredity to the problems of the animal breeder, eugenics, and the modification of animals by hereditary, environmental, and other influences. Open only to those who have had Zoology 1 and 2 or equivalent. 4 hours.

Education 137b. Teacher's Course in Zoology: A course designed particularly for prospective teachers of nature study in the public schools or of zoology in high schools. Lectures on such topics as: the history of zoology; the pedagogical value and methods of the science, especially in its relation to secondary education; outlines of courses for public school and high school curricula; the collection and preservation of zoological material, etc. In the laboratory, each member of the class is given practical experience in teaching zoology, together with a critical consideration of his material and method. There will be occasional field trips on Saturday mornings for the demonstration of collecting methods. Prerequisite, Zoology 1 and 2. 2 hours.

Primarily for Graduates

Zoology 200a. Advanced Zoology: Problems in research. Lectures and laboratory. Deposit required. Credit and hours to be arranged with the instructor.

Zoology 201b. Advanced Zoology: Problems in research. Lectures and laboratory. Deposit required. Credit and hours to be arranged with the instructor.

Zoology 200 and 201 consist of lectures on the nature of research in zoology, the problems to be solved, methods and technic of attack, bibliography, etc. Each student is assigned a problem suited to his capacity and training, and is guided to its solution with the purpose in view of the presentation of a creditable and original thesis.

THE SCHOOL OF FINE ARTS

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

FREDRIK HOLMBERG, B. M.
Dean of the School of Fine Arts, Professor of Music.

JOSEPH FRANCIS PAXTON, A. M.
Professor of Greek and Classical Archaeology.

*ROY GITTINGER, A. M.
Professor of English History.

THEODORE HAMPTON BREWER, M. A.
Professor of English Literature, Director of the School of Journalism.

LUCILE DORA, M. A.
Professor of the Romance Languages and Literatures.

JOHN CHESTER DARLING, M. S., M. D.
Physical Director.

*ROY TEMPLE HOUSE, A. M.
Professor of the Germanic Languages and Literatures.

WARREN WAVERLEY PHELAN, Ph. D.
Professor of Psychology, Director of the School of Teaching.

EVA ELLSWOTRH DUNGAN.
Associate Professor of Piano and Public School Music.

CHARLES FRANCOIS GIARD.
Associate Professor of Piano and Theory of Music.

†MERLE EDELWEISS NEWBY, B. M.
Associate Professor of Violin.

PATRICIO GIMENO, B. A.
Assistant Professor of Art, Instructor in Italian.

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*On leave of absence, 1914-1915.
†Resigned February 15, 1914.

BURTON FRANK TANNER, B. L.
Assistant Professor of Public Speaking.

LLOYD BURGESS CURTIS, B. S.
Assistant Professor of Spanish. Instructor in Band Instruments. Leader of the University Band.

LEWIS SPENCER SALTER, B. M.
Instructor in Piano and Theory of Music.

NELLIE MAY MCGINLEY.
Instructor in China Painting.

GEORGE WILLIAM SCHMIDT, B. M.
Instructor in Voice.

LOUIS COGSWELL.
Associate Professor of Voice.

§PAUL S. CARPENTER.
Instructor in Violin.

DORIS MUNDY, B. M.
Instructor in Piano.

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§From February 15, 1914.

THE SCHOOL OF FINE ARTS

The School of Fine Arts is housed on the third floor of the new University Hall. The studios and class rooms, especially fitted for the work, are large, commodious, and sound proof.

The School of Fine Arts offers:

a. Four years' work in the theory of music in piano, in voice, and in violin, leading to the degree of Bachelor of Music.

b. Four years' work in drawing and painting, leading to a certificate in art;

c. Regular classes and individual instruction in dramatic art and expression;

d. Courses in violoncello, cornet, and other band and orchestra instruments, and in watercolor and china painting;

e. Graduate work in piano, voice, and violin for those who desire to make public performances and repertoire a specialty.

f. Preparatory work in piano, voice, and in violin.

RECITALS, CONCERTS

The work of the year is interspersed with concerts and public and private recitals. The situation of Norman makes it possible for some of the best musicians to visit the city.

ORGANIZATIONS

Such organizations as the orchestra, band, glee club, and the like are maintained each year.

The orchestra meets twice a week and is open to all students who can satisfy the entrance requirements. Several concerts are given during the season.

The choral union has for its object the study of standard oratorios and the large choral works. It meets once a week during the second semester. "The Messiah," or some other oratorio, is given annually.

The band furnishes music for the various athletic meets, besides assisting in concerts during the year. Two rehearsals are held each week.

The men's glee club has a membership of about twenty-five.

Membership is decided by competition. Two rehearsals are held each week.

The Mendelssohn Glee Club, is an organization for young women. Two rehearsals are held each week.

The glee clubs give several concerts and entertainments during the season.

An opera is given each season by university talent.

RENDER MEDAL

Through the courtesy of Samuel P. Render, Esq., of Lawton, Oklahoma, the School of Fine Arts is holder of a gold medal to be contested for annually. This medal is presented to the student who has made the highest grade in the study of harmony.

CONCERT COMPANIES

Concert companies consisting of members of the faculty of the School of Fine Arts and advanced students are organized for the purpose of giving concerts on the university extension circuits.

Trips are also arranged for the different musical organizations such as the orchestra, the band, the glee club, and the quartettes.

INTERSCHOLASTIC CONTEST

An interscholastic contest in music, in art, and in expression for high school pupils is conducted by the School of Fine Arts each year in connection with the Interscholastic Track and Field Meet. The winners of these contests receive free scholarships. Particulars will be furnished on application to the Dean of the School of Fine Arts.

DEGREES

Upon the satisfactory completion of the prescribed and elective studies in music as outlined below, the candidate will receive the degree of Bachelor of Music (B. M.,) qualified by the department in which the major work has been done.

Certificate for Musical Supervisors

Upon satisfactory completion of the following courses, candidates will be granted a Certificate as Supervisor of Public School Music:

Music 1, 5, 6, 8, and 9, Education 139 and 140, Group I in Voice and English 1 and 2.

Certificate in Art

Upon satisfactory completion of the courses outlined in the history of art and in applied art, the candidate will receive a Certificate in Art.

ADMISSION

Applicants may be admitted to the School of Fine Arts as candidates for a degree, as unclassified students, or as preparatory students. Candidates for a degree are admitted either to first year work without condition, or to advanced standing.

Admission to First Year Work

Applicants for admission to first year work should be at least sixteen years of age and should be graduates of a high school or have had an equivalent training.

The requirements except in technical or applied work are usually stated in units.

The requirements for admission are given below in units:

English	3	UNITS
One Foreign Language	2	"
History	1	"
Algebra	1	"
Electives	8†	"
	15	

†For admission to the courses in music three of these eight elective units must be in prescribed technical work in music as described below.

1. For admission to the courses in piano or in voice students must have completed Landon, Bertini, Berger, Vogt, two Clementi Sonatinas, two Kulau Sonatinas. They must be able to play easy compositions such as Schumann's "Happy Farmer," Schumann's "The Wild Horseman," Gurlitt's "Consolation," Saeboeck's "Lullaby," Godard's "Waltz," Bohm's "Mazurka," Kjerulf's "Cradle Song," Barilli's "Cradle Song." The equivalent of any of the above may be substituted.

For the satisfactory completion of this work three admission units are granted.

2. For admission to the courses in violin students must have completed Henning's Violin School, Part I and Part II, Kayser's Etudes, Book I and II, Maza's Special Studies, and Dancla's Six Air Varies, or the equivalent of any of the above mentioned works.

For the satisfactory completion of this work three admission units are granted.

Credit for the above described preparatory courses in music is given only on examination. Candidates who cannot secure admission credits in music may take these courses in the university but without university credit.

A description of all work that may be offered to satisfy the required or elective units as well as a statement of the ways in which credit may

be secured for work done in high school may be found in the university catalogue, under the head of "Admission."

Admission as Preparatory Students in Music

Students taking preparatory courses in music outlined above will be classified as preparatory students in the School of Fine Arts.

Admission as Unclassified Students in Music

Students who have credit for the required admission units in music but who are otherwise deficient in entrance requirements will be enrolled as unclassified students and allowed to take such technical work in music as may best suit their needs.

Admission to Advanced Standing In Music

Applicants may secure advanced standing for technical or applied work in this school only with the approval of the department concerned. Advanced standing for academic subjects is given under the regulations adopted for the College of Arts and Sciences.

FEES AND DEPOSITS

Tuition is free for all courses offered in the School of Fine Arts except that charges are made for individual lessons as follows.

For preparatory music, two thirty minute lessons a week, $18.00, $27.00, and $36.00 a semester depending on which instructor is chosen.

For applied music (piano, voice, violin) Groups I, II, III, or IV, two thirty minute lessons a week, $18.00, $27.00, and $36.00 a semester depending on which instructor is chosen. Students regularly admitted to Group IV in the University of Oklahoma in applied music are not required to pay tuition, if at least one of the preceding groups has been taken in the University of Oklahoma.

For instruction in band and orchestra instruments, two thirty minute lessons a week, $18.00 a semester.

For water-color or china painting, two four-hour lessons weekly, $27.00 a semester.

For courses in expression, first, second, or third year, two thirty minute lessons a week, $27.00 a semester.

Fees are payable strictly in advance and no lessons will be given until a receipt from the financial clerk is presented to the instructor.

Fees are not refunded except when a student must discontinue his lessons for unavoidable cause.

Students absent from more than one-third of the lessons for which

they are enrolled in applied music or expression will be dropped and no fees will be refunded.

In the courses in drawing and painting, students must pay for their own material.

PIANOS FOR PRACTICE

Pianos for practice may be rented from music houses for use one hour a day at a cost of $0.75 to $1.00 a month; for two hours a day at a cost of $1.50 to $2.00 a month. A piano for exclusive use of one or more pupils will cost from $3.50 to $5.00 per month.

SPECIAL RULES AND REGULATIONS OF THE SCHOOL OF FINE ARTS

Students regularly enrolled in the School of Fine Arts will not be permitted to take more than twelve hours of work besides the technical (or applied) work in music, expression, or art. Eight hours shall be considered average work. This rule will be waived only in exceptional cases, and then only by a three-fourths vote of the faculty of the School of Fine Arts. No student who has received a mark of failure, or who has a condition that is not removed on or before the first Saturday of the following semester, shall enroll for more than eight hours outside of the technical work in music, art, or expression.

No student is permitted to take part in any public performance without the consent of the instructor. A student violating this rule will not be given credit for work done in applied music or expression during the semester in which the rule is violated.

Lessons falling on legal holidays will not be made up except by special arrangement with the instructor.

Lessons missed through a student's own negligence will not be made up.

The art department reserves the right to keep drawings, paintings, etc., done by students, for the university art collection. A student taking away drawings and paintings without permission will not receive credit for the specimens of work taken away.

Students in applied music are required to attend rehearsals and take part in public performances connected with the university when the faculty of the School of Fine Arts thinks it will benefit the students. This rule will be strictly enforced, and students violating the same will be conditioned in applied music until such students become regular in this work. Graduate students violating this rule will be dropped from the course.

Students in the School of Fine Arts are not charged fees for ap-

plied music during the senior year in the particular branch in which they major.

No fees are charged for the first year of graduate work.

All work in applied music and art catalogued in Group IV must be completed in residence with an instructor regularly employed by the university. No degree will be given in violation of this rule.

RULES FOR RECITALS

Students regularly enrolled in applied music courses in the School of Fine Arts must attend at least two-thirds of the number of pupils' recitals given each semester. Students enrolled in any other college or school in the university and taking applied music in the School of Fine Arts are required to attend at least one-half of the number of pupils' recitals given each semester. Students violating this rule are conditioned in applied music until the deficiency is corrected.

The above rules do not apply to any musical entertainments where admission is not free.

CREDIT FOR WORK DONE IN MUSICAL ORGANIZATIONS

Credit will not be given to any student for work in musical organizations until such student has been a member of an organization for one semester. After the above requirements have been fulfilled credit may be received towards a B. M. degree as follows:

For work in orchestra 1-2 hour credit a semester.

For work in glee club 1-2 hour credit a semester.

For work in band 1-2 hour credit a semester.

For work in chorus 1-2 hour credit a semester.

Absences from rehearsals will be checked against a student in this work under the rules that govern work in regular classes of the university.

Not more than four hours credit for work done in any one of the above mentioned organizations will be granted towards a degree.

ENROLLMENT AND CHANGE OF STUDIES

At the time of enrollment each student must obtain a certificate of registration in person from the registrar. He must then consult with his adviser in regard to his work and receive a statement, signed by the adviser, of the classes in which he is enrolled. This statement must then be presented to the financial clerk and all fees and deposits must be paid. The statement will then be filed with the registrar who will issue cards of admission to the several classes. A student is not a member of a class until the instructor in charge has received

notice from the registry office that the enrollment is complete. Students are not permitted to attend a class for which they are not enrolled.

Students may enroll in applied or technical work in music, expression, or art, at any time in a semester, but if they wish to complete regular courses they should enter at the beginning of a semester.

Students must enroll in theoretical courses in music or art at the beginning of the semester, except as provided for in the rules for "Change of Studies."

Change of Studies

A student desiring to drop a study, or to take up a new one after his enrollment card has been filed with the registrar, must present to the dean of the school a petition for change. After the first week from the opening of a semester changes in enrollment are not permitted except for extraordinary reasons.

No student will be allowed to change from one school or college to another except upon the approval of each dean concerned, and such changes will not be granted later than two weeks after the opening of the semester.

OUTLINE OF COURSES IN MUSIC

OUTLINES OF COURSES LEADING TO B. M. DEGREE IN THEORY OF MUSIC

Candidates for the B. M. degree in theory of music must complete Groups I, II, and III in piano, in voice, or in violin, in addition to the courses in the following outline.

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (History of Music)	2	Music 6 (History of Music)	2
English 1	4	English 2	4
Public Speaking 1	2	Public Speaking 2	2
Physical Training 1 or 51	1	Physical Training 2 or 52	1
	13		13

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1 or French 1	4	German 2 or French 2	4
Elective	2	Philosophy 109	2
	8		8

Junior Year

Music 100 (Canon)	2	Music 101 (Fugue) or Music 104(Musical Analysis)	2
Music 7 (Musical Forms)	2	Elective	2
Music 102 (Instrumentation)	2	Music 103 (Instrumentation)	4
	6		8

Senior Year

Music 105 (Composition)	4	Music 106 (Composition)	4
Music 107(Adv. Hist.of Music)	2	Music 108 (Adv. Hist. of Music)	2
Elective	4	Music 109(Adv.Instrumentation	2
	10		8

OUTLINE OF COURSES LEADING TO B. M. DEGREE IN PIANO OR IN VIOLIN

Candidates for the B. M. degree in piano, or in violin, must complete Groups I, II, III, and IV in piano or in violin in addition to the courses in the following outline:

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (Hist. of Music)	2	Music 6 (Hist. of Music)	2
English 1	4	English 2	4
Public Speaking 1	2	Public Speaking 2	2
Physical Tr. 1 or 51	1	Physical Tr. 2 or 52	1
	13		13

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1 or French 1	4	German 2 or French 2	4
Elective	2	Philosophy 109	2
	8		8

Junior Year

Music 100 (Canon)	2	Music 101 (Fugue) or Music 104 (Musical Analysis)	2
Music 7 (Musical Forms)	2		
Elective	2	Elective	2
	6		4

Senior Year

Music 109 (Instrumentation)	2	Music 110 (Instrumentation)	4
Elective	2		
	4		4

OUTLINE OF COURSES LEADING TO B. M. DEGREE IN VOICE

Candidates for the B. M. degree in voice must complete Groups I, II, III, and IV in voice in addition to the courses in the following outline.

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (Hist. of Music)	2	Music 6 (Hist. of Music)	2
English 1	4	English 2	4
Public Speaking 1	2	Public Speaking 2	2
Physical Tr. 1 or 51	1	Physical Tr. 2 or 52	1
	13		13

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1	4	German 2	4
Elective	2	Philosophy 109	2
	8		8

Junior Year

Music 100 (Canon)	2	Music 104 (Musical Analysis)	2
Music 7 (Musical Forms)	2		
French 1	4	French 2	4
	8		6

Senior Year

Music 109 (Instrumentation)	2	Music 110 (Instrumentation)	4
Italian 1	4	Italian 2	4
	6		8

OUTLINE OF COURSES LEADING TO CERTIFICATE IN ART

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Art 1	4	Art 2	4
Art 9	2	Elective	2
English 1	4	English 2	4
German 1	4	German 2	4
Physical Training 1 or 51	1	Physical Training 2 or 52	1
	15		15

Sophomore Year

Art 3	4	Art 4	4
Art 11	2	Art 12	2
French 1	4	French 2	4
History 59	4	History 60	4
	14		14

Junior Year

Art 5	4	Art 6	4
Art 13	2	Art 14	2
Public Speaking 1	2	Classical Archaeology 4	4
Elective	8	Public Speaking 2	2
		Philosophy 109	2
		Elective	2
	16		16

Senior Year

Art 7	4	Art 8	4
Italian 1	2	Italian 2	2
Elective	10	Elective	10
	16		16

DESCRIPTION OF COURSES

Credit will be given in the College of Arts and Sciences for not to exceed twenty-seven hours in the history and theory of music and in the history of art, of which twenty-one hours may be in music and six hours in art.

Courses marked "a" are first semester courses. Courses marked "b" are second semester courses.

THEORY AND HISTORY OF MUSIC

Professor Holmberg, Associate Professor Dungan, Associate Professor Giard, Associate Professor Cogswell, Mr. Salter

Primarily for Undergraduates

Music 1a. Harmony: A study of the fundamental principles of music, beginning with the origin and development of scales and intervals. Practical work in connecting simple chords, chords of the seventh, augmented triads, augmented sixths, and cadences. Special attention will be given to simple harmonic phrasing and ear training. Harmony, by Emory, Prout, and Richter. Mr. Salter. 4 hours.

Music 2b. Harmony: A continuation of Music 1. A study of modulations, suspensions, anticipations, appogiaturas, passing notes, organ point, choral writing, and accompaniment. Most of the work in this course will consist of original exercises. Texts for reference, Harmony, by Jadassohn, Richter, and Chadwick. Mr. Salter. 4 hours.

Music 3a. Counterpoint: The principles of harmony are applied to melodious treatment of several parts in combination. Chorals and melodies are harmonized with free use of passing notes, etc., with and without cantus firmus. Original work in free composition in the smaller forms. Prerequisite, Music 1. Associate Professor Giard. 2 hours.

Music 4b. Counterpoint: A continuation of Music 3. Special study in free and double counterpoint, imitative counterpoint, and inventions. Vocal counterpoint and choral works. Original exercises in composition. Prerequisite, Music 1, 2, and 3. Associate Professor Giard. 2 hours.

Music 5a. History of Music: This course embraces a systematic study of the origin and development of music of the ancient

oriental nations, the music of the early Christian age, the beginning of polyphony, and the musical sovereignty of the Netherlanders. This is a literary course and does not require any special musical training. Text and readings. Mr. Salter. 2 hours.

Music 6b. History of Music: This course consists of a study of the music of the sixteenth century and the historical development of secular and sacred music of the classic, romantic, and modern schools. Lectures and readings. An aeolian orchestrelle is used to illustrate the great masterworks. Mr. Salter. 2 hours.

Music 7a. Musical Forms: A study of the origin and development of the various musical forms, including designs, the phrase and section, song forms of one, two, and three periods, applied song forms, the old dance forms, the suite, the sonata form, rondo forms, the overture, the concerto, vocal forms, modern dance forms, etc. For reference, texts by Prout, Elson, and Pauer. An aeolian orchestrelle is used to illustrate the larger works. Prerequisite, Music 1 and 2. Associate Professor Giard. 2 hours.

Music 8a. Public School Music: This course is designed for students who expect to combine the teaching of other branches with the subject of music in the public schools. The work consists of a study of the technical points to be presented in the school and the practice of songs suitable for school use. The course is open to all college students. No technical knowledge is required. Twice a week. Associate Professor Dungan. 1 hour.

Music 9b. Public School Music: A continuation of Music 8. Special attention will be given to the art of conducting classes in four part singing, and no one will receive a passing grade in the course who does not thoroughly know the words and music of the most prominent national songs of the United States Prerequisite, Music 8. Twice a week. Associate Professor Dungan. 1 hour.

For Undergraduates and Graduates

Music 100a. Canon: A study of canon in two or more parts, similar and contrary motion. Original work in composition in the larger forms. Prerequisite, Music 1, 2, 3, 4. Associate Professor Giard. 2 hours.

Music 101b. Fugue: The work consists of the analysis and composition of fugues in two, three, and four parts. Advanced forms of vocal and instrumental music will be composed by the students. Professor Holmberg. 2 hours.

Music 102a. Instrumentation: This course embraces lectures on the art of instrumentation with special reference to the compass, quality of tone, balance, and contrast of the various instruments. Exercise in simple orchestration. Books for reference by Berilcz,

Prout, and Gavaert. Prerequisite, Music 1, 2 3, 4, and 7. Professor Holmberg. 2 hours.

Music 103b. Instrumentation: This is a continuation of Music 102. It requires practical work in orchestration in the larger musical forms, using for this purpose selections from the works of the masters and the original compositions of the students. Professor Holmberg. 4 hours.

Music 104b. Musical Analysis: This course is offered to those who desire an analytical knowledge of musical composition from an intellectual and emotional standpoint. This course may be substituted for Music 101b. Prerequisite, Music 1, 2, 3, and 7. Four times a week. Professor Holmberg. 2 hours.

Music 105a. Composition: The work consists principally of original compositions and analytical studies of modern compositions, Prerequisites: Music 1, 2, 3, 4, 7, and 100. Associate Professor Giard. 4 hours.

Music 106b. Composition; A continuation of Music 105. Associate Professor Giard. 4 hours.

Music 107a. Advanced History of Music: A study of musical development of the twentieth century, and weekly reports on current musical events. Prerequisites, Music 5 and 6. Professor Holmberg. 2 hours.

Music 108b. Advanced History of Music; A continuation of Music 107. Prerequisites, Music 107. Associate Professor Cogswell. 2 hours.

Music 109b. Advanced Instrumentation: Original compositions for orchestra, chorus, and orchestra, etc. Part of the time is used for analyzing modern orchestral scores. Prerequisites, Music 102 and 103. Professor Holmberg. 2 hours.

Education 139a. Teacher's Course in Music: This course is designed for those who wish to fit themselves for the special work of supervisors of music in public schools. It includes the following subjects; rote songs and their application to school work; elements of music as presented in the grades, and best methods of reading; study of the child voice; sight-singing and ear training. Prerequisite, Music 8 and 9. Associate Professor Dungan. 2 hours.

Education 140b. Teacher's Course in Music: Practice in teaching; elementary harmony and musical form as presented in the high school; the problems of the supervisor and how to meet them; interpretation of songs; art of conducting; practice in conducting. Prerequisite, Education 139. Associate Professor Dungan. 2 hours.

APPLIED MUSIC

The prescribed technical work in each of the several departments is described below. The groups are so arranged that the average student can complete the work in one group each year.

PIANO

Associate Professor Dungan, Associate Professor Giard, Mr. Salter, Miss Mundy

Technical work required for the Degree of Bachelor of Music in Piano

Group I

Out of the following list of compositions, twelve must have been studied and four of the twelve must have been performed in public.

Mozart, Sonata C major
Gade, Aquarelles (3)
Jenson, The Mill
Scharwenka, op. 62
Hoffman, Mood Pictures
Schumann, op. 68 (5)
Wilm, At the Spinning Wheel

16 hours.

Group II

Out of the following list of compositions, twelve must have been studied, and four out of twelve must have been performed in public.

Hayden, Sonata E flat
Mozart, Sonata F major
Bach, Two Part Inventions (6)
Mendelssohn, Songs without Words (5)
Lavelle, Le Papillon
Litolf, Spinning Song
Raff, Fabliau
Rheinberger, Ballade A minor
St. Heller, op. 80, No. 1, 2

16 hours.

Group III

Out of the following list of compositions, twelve must have been studied, and four of the twelve performed in public.

Beethoven, Sonata op. 10, No. 2
Schubert, Sonata A major
Scarlatti, Sonata A major
Haesslor, Gigue D minor
Bach, Prelude and Fugue, No. 2
Bach, Partitas (Allamande, Courante)
Schumann, Papillons
Liszt, Consolations [2]
Grieg, op. 19
Moscheles, Preludes [8]
Chopin, Fantasie Impromptu
Chopin, Nocturne F minor
Chopin, Waltz C sharp 16 hours.

Group IV

Students may enter Group IV by examination only.

Out of the following list of compositions, a program lasting at least one hour must have been committed to memory, and performed in public. One-half of this program may be selected from the list given in Group III.

Beethoven, Concerto G major
Beethoven, Sonata op. 26
Beethoven, Sonata op. 28
Bach, Prelude and Fugue, No. 19
Bach, Italian Concerto
Chopin, Waltz in E minor
Chopin, Nocturne F sharp
Chopin, Etude E major
Chopin, Polonaise A major
Reinecke, Ballade A flat
Schumann, op. 12, Nos. 2, 3, 8, 12
Mendelssohn, Variation Serieuses
Raff, Fairy Tale
Liszt, Gnomenreigen 16 hours.

For any composition listed in the above four groups, a composition of equal merit may be substituted.

VOICE

Associate Professor Cogswell, Mr. Schmidt

Technical work required for the Degree of Bachelor of Music in Voice

Group I

Out of the following list of compositions, twelve must have been studied and four of these must have been performed in public.

Special vocalizes with teacher
Concone, op. 9
The Violet, by Mildenberg
Roses, by Lynes
Night Time, by Van de Water
Singing in God's Acre, by Brackett
Sweetheart, by Hawley
Ave Maria, by Raff
Red, Red Rose, by Hastings
The Old and the Young Marie, by Cowen
Loves Sorrow, by Shelly
Jean, by Burleigh 16 hours.

Group II

Out of the following list of compositions, twelve must have been studied and four of these must have been performed in public.

Special exercises in phrasing and technique by teacher
Marchesi, op. 21, Part III
The Dream, by Rubinstein
Polly Willis, by Arne
The Lass with the Delicate Air, by Arne
Oh! Dry those Tears, by Del Reigo
At Parting, by Rogers
Asthore, by Trotre
Calm as the Night, by Böhm
Because I Love You Dear, by Hawley
The Rosary, by Nevin
Nearer My God to Thee, by B. O. Klein
Over the Stars there is Rest, by Abt
My Dreams, by Tosti 16 hours.

Group III

Out of the following list of compositions twelve must have been studied and four of these must have been performed in public.

Advanced vocalizes and technique by teacher
Marchesi, op. 21, Part IV
I'll Sing Thee Songs of Araby, by Clay
My Heart at Thy Sweet Voice, by Saint Saens
Lullaby (from Jocelyn), by Godard
Oh! Vision Entrancing, by Goring Thomas
I Love Thee, by Dudley Buck
Songs My Mother Taught Me, by Dvorak
The Message, by Blumenthal
Danny Deever, by Damrosch
Queen of the Earth, by Pinsuti
Spring Song, by Weil
For All Eternity, by Mascheroni
Ave Maria, Gounod
The Nightingale and the Rose, by Barnby
Orpheus with his Lute, by Sullivan
Among the Lilies, by Dana 16 hours.

Group IV

Students may enter Group IV by examination only.

Out of the following list of compositions, a program lasting at least one hour must be prepared, committed to memory, and performed in public. One half of this program may be selected from the list given in Group III.

Special advanced technique and tone coloring by teacher
Polonaise (from Mignon), by Thomas
Cavatina (from Faust), by Gounod
Bell Song (from Lakme), by Delibes
With Verdure Clad (from Creation), by Haydn
Toreador Song (from Carmen), by Bizet
Hear Ye Israel (from Elijah), by Mendelssohn
O! Rest in the Lord (from Elijah), by Mendelssohn
Onaway, Awake Beloved! (from Hiawatha), by Coleridge Taylor
No Torments now (from LeCid), by Massenet
Waft her, Angels (from Jephthah), by Handel
Be Thou Faithful unto Death (from St. Paul), by Mendelssohn
Celestial Aida (from Aida), by Verdi
Lend me your Aid (from Queen of Sheba), by Gounod
Elsa's Dream (from Lohengrin), by Wagner
It was not so to be (from the Trompeter), by Nessler
Sancta Maria, by Faure 16 hours.

For any composition listed in the above four groups, a composition of equal merit may be substituted.

VIOLIN

Mr. Carpenter

Technical work required for the Degree of Bachelor of Music in Violin

Group I

Out of the following list of compositions twelve must have been studied and four of these must have been performed in public.

Maza's Brilliant Studies
24 of Kreutzer's 42 Etudes
David's Violin School, Part II, up to scales in octaves
Singer's finger excercises up to Ex. No. 72
Selections:
Three of DeBeriot's "Air Varies"
Two Wieniawski "Mazurkas"
"Legende in C Minor," Bohm
"Adagio," Beethoven's Sonata Pathetique
"Minuette," Boccerini
"Hungarian Dance," Brahms (Herman)
"Serenade-Badini," Gabriel-Maria
"Hungarian Idylle," Bela
One Handel Sonata 16 hours.

Group II

Out of the following list of compositions twelve must have been studied and four of these must have been performed in public.

Kreutzer's 42 Etudes completed
28 of Fiorilla's 36 Etudes
David's Violin School Part II completed
Singer's Finger Exercises completed
Selections:
Two Handel Sonatas (not studied before)
"Concerto" No. 1, DeBeriot
"Concerto" No. 9, DeBeriot
"Chanson Polonaise," Wieniawski
"Romance in G," Swendson
"Largetto," Tartini
"Anitra's Dance," Grieg
"Spinning Song," Eberhart
"Bolero in A," Bohm
"The Bee," Schubert
"Cavatina," Raff 16 hours.

Group III

Out of the following list of compositions, twelve must have been studied and four out of the twelve must have been performed in public.

Kreutzer's 42 Etudes reviewed
Rhode's 24 Caprices
Maza's Artist Studies (all except 6)
Rovello's 12 Caprices
Tartini's 50 Variations (for bowing)
Spohr's Violin School, 65 first exercises
Selections:
"Concerto No. 7," DeBeriot
"Concerto No. 13," Kreutzer
"Concerto No. 22," Viotti
"Concerto No. 23," Viotti
"Concerto in A," Mozart
One Concerto, David
"Concerto No. 2," Spohr
Four Hayden Sonatas
Two Grieg Sonatas
"Legende" in G, Wieniawski
"Fantasie Caprice," Vieuxtemps
"Andante and Scherzo," David 16 hours.

Group IV

Students may enter Group IV by examination only.

Out of the following list of compositions, a program lasting at least one hour must be prepared, committed to memory, and performed in public. One half of this program may be selected from the list given in Group III.

Bach's Six Sonatas (no substitute will be accepted for these sonatas)
Alard's 10 Characteristic Etudes
Twelve of Paganini's 24 Caprices
David's Violin School reviewed
Selections:
"Concerto op. 61," Beethoven
"Concerto No. 2," Wieniawski
"Concerto op. 64," Medelssohn
"Concerto in G minor," Bruchs
"Concerto in D minor," Vieuxtemps
"Sonata op. 24," Sjoegren
"Kreutzer Sonata," Beethoven
"Ballade and Polonaise," Vieuxtemps

"Fantasie Appassionata," Vieuxtemps
"Elegy," Ernst
"Aria for G String," Bach
"Reverie in E flat," Vieuxtemps
"Ziganeur weissen," Sarasate
"Introduction and Rondo Cappriccioso," Saint Saens 16 hours.

For any composition listed in the above four groups, a composition of equal merit may be substituted.

ART

Assistant Professor Gimeno, Miss McGinley

DRAWING AND PAINTING

Courses Leading to the Certificate in Art

Assistant Professor Gimeno

Art 1a. Drawing from geometrical solids. Elementary sketching from costumed models, etc. 12 hours a week in Art Studio. 4 hours.

Art 2b. Drawing from plaster casts, sketching from costumed models, and mechanical drawing. 12 hours a week in Art Studio. 4 hours.

Art 3a. Drawing continued. Painting from still life. Sketching in colors from costumed models. 12 hours a week in Art Studio. 4 hours.

Art 4b. Drawing continued. Painting from still life and color sketching continued. Clay modeling. 12 hours a week in Art Studio. 4 hours.

Art 5a. Drawing from living models. Color sketching from living models. Landscape painting. 12 hours a week in Art Studio and outdoors sketching. 4 hours.

Art 6b. Drawing continued. Landscape and portrait painting. 12 hours a week in studio and outdoor sketching. 4 hours.

Art 7a. Five and twenty minute sketching from living models in charcoal and oil, landscape and portrait painting. 12 hours a week. 4 hours.

Art 8b. Five and twenty minute sketching continued, oil portrait and landscape painting. Preparation of individual art exhibtion. 12 hours a week. 4 hours.

Art 9a. Perspective: The laws of perspective and their application for pictorial purposes. 2 hours.

Water-color and China Painting

Miss McGinley

Courses in water-color painting and china painting will be given to those desiring a knowledge of the technique of these two branches of art. No credit toward graduation will be given for this work.

HISTORY OF ART

Assistant Professor Gimeno

Art 11a. The History of Painting: The history of painting to the end of the fifteenth century. Text and lectures. 2 hours.

Art 12b. The History of Painting: The history of painting from the end of the fifteenth century to the present time. A special study will be made of modern painting. Richard Wuther's "History of Modern Painting" will be read as reference. Text, readings, and lectures. 2 hours.

Art 13a. The History of Sculpture: A brief survey of the history of sculpture from ancient times to the present. Text and lectures. 2 hours.

Art 14b. The History of Architecture: A brief course in the history of architecture from ancient times to the present. Text and lectures. 2 hours.

PUBLIC SPEAKING

Assistant Professor Tanner

The courses in public speaking are designed to given training along two general lines: first, interpretative reading and dramatic presentation; and second, composition and delivery of public addresses, debating, extemporaneous speaking, and oratory.

Those desiring to prepare for platform work or the teaching of reading should take courses 1, 2, 7, 8, 9, and 10; those desiring to attain ease and naturalness in public address and a knowledge of the rhetoric of an oration should elect courses 1, 2, 5, 6, 15, 16, 17, 18, English 5, and Education 138.

Private lessons in expression may be arranged for by those who wish to do more extended work than is possible in connection with class recitation. Such a course may be taken through a period of three or four years, leading up to the presentation of dramatic readings, lecture-recitals, or lectures.

Recitals will be arranged throughout the year, which will afford opportunity for students to appear in public a number of times during each semester.

Public Speaking 1a. General Preparation: The fundamental principles of expression; correct and refined pronunciation, distinct

articulation, the principles of gesture, pitch, tone, emphasis, and cadence. Two sections. 2 hours.

Public Speaking 2b. General Preparation: A continuation of Public Speaking 1, together with oratorical delivery. Two sections. 2 hours.

English 5a. Argumentation and Debating: See the College of Arts and Sciences. 4 hours.

Public Speaking 15a. Debating: See College of Arts and Sciences. 4 hours.

Public Speaking 16b. Debating: See College of Arts and Sciences. 2 hours.

Public Speaking 17a. Effective Speaking: See College of Arts and Sciences. 2 hours.

Public Speaking 18b. Effective Speaking: See College of Arts and Sciences. 2 hours.

Public Speaking 5a. Advanced Public Speaking: See College of Arts and Sciences. 2 hours.

Public Speaking 6b. Advanced Public Speaking: See College of Arts and Sciences. 2 hours.

Public Speaking 7a. Dramatic Reading: A study in the oral interpretation of the masterpieces of literature. Material will be selected which will serve the peculiar needs of each individual, and also serve as a repertoire. Prerequisites, Public Speaking 1 and 2. 2 hours.

Public Speaking 8b. Dramatic Reading: A continuation of Public Speaking 7. 2 hours.

Public Speaking 9a. Dramatic Presentation: The study and oral interpretation of modern dramas and of Shakespearian drama. Analysis of plot, characters, and incidents. Scenes from plays will be given in class, leading up to a final public presentation of an entire play. Prerequisites, Public Speaking 1 and 2. 2 hours.

Public Speaking 10b. Dramatic Presentation: A continuation of Public Speaking 9. 2 hours.

For Undergraduates and Graduates

Education 138b. Teacher's Course in Public Speaking: See Public Speaking, College of Arts and Sciences. 2 hours.

CLASSICAL ARCHAEOLOGY

Professor Paxton

Classical Archaeology 4b. Greek Sculpture: A course in the history, principles, and development of Greek sculpture. Tarbell's History of Greek Art must be in the hands of each member of the

class, but the instruction will consist largely of formal and informal lectures, illustrated by photographs and the lantern. Required readings in Murray's The Sculptures of the Parthenon, Furtwaengler's Masterpieces of Greek Sculpture, Waldstein's Essays on the Art of Phidias. 4 hours.

ENGLISH

Professor Brewer

English 1a. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence. Daily and fortnightly themes. Required of all candidates for the bachelor's degree. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it.

The course is given in eight sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, Mr. Herbert and Miss Berrigan. 4 hours.

English 2b. First Principles of English Composition: Long and short themes at stated intervals. A study of selected examples of nineteenth century prose. Lectures on the use of words. English 2 is a continuation of and presupposes English 1. Required of all candidates for the bachelor's degree.

The course is given in eight sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, Mr. Herbert and Miss Berrigan. 4 hours.

GERMAN

Professor House

German 1a. Beginning German: Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Prerequisite, two years of foreign language. Spannoofd's Elementarbuch and Bacon's Im Vaterland. Professor House, Associate Professor Voss, and Mr. Schmidt. 4 hours.

German 2b. Beginning German: Bacon's Im Vaterland continued. Continuation of Spanhoofd's Elementarbuch. Prerequisite, German 1. Professor House, Associate Professor Voss, and Mr. Schmidt. 4 hours.

HISTORY

Professor Gittinger

History 59a. History of Greece: The oriental nations and Greece through the Persian invasions. The development and spread of Greek civilization to the Roman conquest. Professor Gittinger. 4 hours.

History 60b. History of Rome: A study of Roman origins and the development of Roman character. The growth of Roman power over the Mediterranean world and the foundation of the Empire. The first four centuries of the Christian era. Special attention will be given to the causes of the decay of ancient civilization. Professor Gittinger. 4 hours.

PHYSICAL TRAINING

Director Darling, Miss Revell

Courses for Men

Physical Training 1a. Marching, calisthenics, Indian clubs, and dumb-bells. Required of freshmen. Dr. Darling. 1 hour.

Physical Training 2b. A continuation of Course 1 with the addition of elementary work on heavy apparatus. Required of freshmen. Dr. Darling. 1 hour.

Courses for Women

Physical Training 51a. Calisthenics, marching, folk and gymnastic games. Required of freshmen. Miss Revell. 1 hour.

Physical Training 52b. Calisthenics, marching, Indian clubs, wands, and gymnastic games. Required of freshmen. Miss Revell. 1 hour.

PSYCHOLOGY

Professor Phelan

Philosophy 1a. General Psychology: This is a general introductory course aiming to give the student a survey of the main problems, principles, and methods of psychology, either as a part of a liberal education or as a preparation for professional study in education, medicine, or law. The following topics will be treated: sensation, perception, attention, habits, association of ideas, memory, imagination, conception, judgment, reasoning, instinct, emotion, volition, and personality. This is a prerequisite to all courses in psychology and education. Lectures, recitations, assigned readings, reports, and experimental work. Pillsbury's Essentials of Psychology. Professor Phelan. 4 hours.

Philosophy 109b. Aesthetics: Preliminary study of the history of æsthetic theories from the Greeks to the present. Analysis and

criticism of æsthetic principles and theories from the standpoint of psychology. Reconstructive study of the theory of art, including the sense of beauty and the art impulse. Gordon's Aesthetics. Professor Phelan. 2 hours.

ROMANCE LANGUAGES

Professor Dora, Assistant Professor Gimeno

French Ia. Beginning French: Essentials of grammar, practice in colloquial French, prose composition, reading of easy texts. Special attention will be given to the French verb and to word order. Fraser and Squair's French Grammar, Super's French Reader, Merimee's Colomba, and Halevy's L'Abbe Constantin. Given in two sections. Professor Dora. 4 hours.

French 2b. Intermediate French: Systematic study of grammar, French conversation, sight reading, parallel work. Fraser and Squair's Grammar, Cameron's Contes de Daudet, Merimee's Carmen, Scribe et Legouve's Bataille de Dames. Given in two sections. Professor Dora. 4 hours.

ITALIAN

Italian Ia. Elementary Italian: Grammar, composition, and reading of modern authors. Mr. Gimeno. 4 hours.

Italian 2b. Elementary Italian: Continuation of Italian 1. Mr. Gimeno. 4 hours.

THE SCHOOL OF LAW

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

JULIEN CHARLES MONNET, A. M., LL. B.
Dean of the School of Law, Professor of Law.

HENRY HUBBARD FOSTER, A. B., LL. B.
Professor of Law.

JOHN BEGG CHEADLE, A. B., LL. B.
Professor of Law.

VICTOR HENRY KULP, PH. B., J. D.
Professor of Law.

WARREN A. SEAVEY, A. B., LL. B.
Professor of Law.

Special Lecturers

SAMUEL W. HAYES.
Chief Justice of the Supreme Court, Lecturer on Legal Ethics.

MATTHEW J. KANE.
Justice of the Supreme Court.

ROBERT LEE WILLIAMS, A. M., LL. D.
Justice of the Supreme Court, Lecturer on the Oklahoma Constitution.

HENRY MARSHALL FURMAN.
Justice of the Criminal Court of Appeals, Lecturer on Crimina Jurisprudence.

CHARLES B. AMES, A. B., LL. B.
Ex-Supreme Court Commissioner.

MALCOLM E. ROSSER, LL. B.
Ex-Supreme Court Commissioner.

CHARLES WEST, A. B.
Attorney General.

SAMUEL THOMAS BLEDSOE.
Of The Oklahoma Bar. Lecturer on Indian Land Titles.

J. H. KEATON, B. S., LL. B.
Ex-Judge District Court.

LLOYD A. ROLAND, A. B., LL. B.
Of The Oklahoma Bar. Lecturer on Oil and Gas Law.

HERBERT DELAVAN MASON, LL. B.
Of The Oklahoma Bar.

THE SCHOOL OF LAW

The School of Law was organized in the fall of 1909 in response to a general demand that the university should provide opportunities and facilities for legal training equal to the best afforded elsewhere. Its aim is to inculcate a sound knowledge of the common law and equity, of English and American modifications in both substantive and adjective law, of constitutional law and federal procedure and of the statutes, decisions, and practice of the state of Oklahoma. It is now generally conceded that such a result can be attained more successfully in a law school than elsewhere. The busy lawyer finds little time for the systematic instruction of the student in his office. The result is that the study tends to become desultory and unprofitable. In a law school the student has the constant help and direction of a body of trained teachers devoting their time and thought to his welfare. He has the inspiration that comes from friendly rivalry with his fellow students in the class rooms, in the quiz clubs, moot courts, and practice courts. He has the advantage of a more extensive library and of encouragement and special assistance in original investigation.

That such is the view of lawyers and judges generally is evidenced by the fact that a large and constantly increasing majority of candidates now come to the bar through the medium of law schools. Much may be said for the practical possibilities of office training, but law schools are more and more attempting, and with increasing success, to supply their former deficiencies in this regard. It is also true that those defects were never as great as has sometimes been alleged; and while it is possible though inconvenient for the young lawyer to supply them, it is nearly impossible for him to supply, after beginning actual practice, the systematic knowledge of the fundamental principles of law which the law school gives him the opportunity to acquire.

INSTRUCTORS

The School of Law, except as to the courses given by the special non-resident lecturers, is conducted by instructors who give practically their whole time and attention to university work. It is certain that the best results can be obtained in no other way. This is confirmed by the experience of the leading law schools of the country, all of

which now place their work of instruction on this basis. The teaching of law is in itself a scientific vocation requiring all of one's energies.

METHODS OF INSTRUCTION

Instruction in the class room is by comment, quiz, and colloquy. It consists largely of the analysis and discussion of cases. Instead of placing before the student a set of legal principles which he is required to learn, the much more difficult task is assigned him of reading the actual opinions contained in the reports and ascertaining therefrom the law involved. He is then required to apply that law to other cases, both hypothetical and actual. In so doing he is both assisted and criticised by the instructor who guides and coordinates the discussion toward a definite end. It is believed that by this method the power of legal reasoning, discrimination, and generalization is most fully developed, and at the same time the student is obliged to exercise the same mental processes and follow the same methods of argument as those required by the skillful advocate. Copious references are continually made for extensive side reading, and students are constantly encouraged to use the library.

In the practice court, in the courses in civil procedure and criminal law and procedure, and elsewhere when deemed necessary, emphasis is laid on the law of this jurisdiction. The aim is to fit the student generally for practice in any state and to fit him especially for practice in the West and Southwest.

EXAMINATIONS

At the middle and end of each year careful examinations are given, designed to test the student's ability to apply his knowledge. Failures or conditions in more than one-third of the work carried will sever the student's connection with the school. It is within the discretion of the law faculty to reinstate such students on proper petition and showing. A student who receives a failure in any course must take the course over. All conditions received in either semester must be removed at examinations held for that purpose at the opening of the school the following September. Students should arrange in advance for such examinations, which will be given but once and which will not be given to students enrolling late. Third year students will be given an opportunity to remove their first semester conditions at the time of the regular second semester examinations at the end of the year. In order to pass such examinations for the removal of conditions the student is required to manifest a higher proficiency than is sufficient in the original examination. Students failing to take the reg-

ular examinations or to remove their conditions will receive the grade "F." No special examinations will be held.

ENROLLMENT

The enrollment in the School of Law during the first five years of its existence has exceeded the expectations of all. The full three years' curriculum is now being regularly given. Students in the School of Law have all the advantages and privileges of other students in the university.

NEW LAW BUILDING

Monnet Hall the new law building costing $125,000.00, is completed and has been occupied since the opening of the session in September, 1913. It is 132 feet long and 55 feet wide with additional 14 foot entrance projections on the east and west. It is built in solid Bedford stone, its architectural lines following in themain those of University Hall. It is centrally located overlooking the oval, and constitutes one of the wings of the permanent group of buildings of which University Hall is the center. It has three stories and a basement and contains every feature necessary for a modern law school. This building is one of unusual beauty, solidity, and convenience. It is fireproof throughout. This building together with the provision made by the governing authorities of the university for large additions to the law library, and the law recently enacted providing for the exchange of Oklahoma law books with other states for the benefit of the law school library, places the School of Law on an equal footing with the state university law schools of other leading states and assures its rapid development and prosperity.

LIBRARY

About six thousand dollars worth of books have been purchased as an initial installment of the law library. These books have been carefully selected and the list contains most of the essentials. Other installments will be procured from time to time, as it is the purpose of the school to build up rapidly a library that will answer all the purpose of legal study and investigation. The leading law journals are kept constantly on file. A member of the law faculty has general supervision of the library, and student assistant librarians are in charge to give needed information and maintain order. The library is open during the day and in the evening.

Bulletin Board

A bulletin board is maintained on which all official notices are posted, and all such notices are considered personal notices to the student or students concerned.

SPECIAL LECTURES

Short courses of lectures will be delivered by members of the supreme court, criminal court of appeals, and by prominent attorneys of the state. These courses are required of first year students; second and third year students may attend them.

PRACTICE COURT

In addition to the courses in pleading and practice, and the practical suggestions given throughout the courses by the the regular instructors and the special lecturers, a practice court is maintained in order to afford the student an opportunity of acquainting himself with the regular sequence of steps in litigation and of learning by actual experience what actions or proceedings should be brought, how to bring them, and how to handle the case until its close. Students act as attorneys, sheriffs, clerks, parties, witnesses, jurors, etc., and every effort is made to reproduce the conditions of actual practice in the Oklahoma courts. This work is supplemented by lectures pointing out errors and discussing questions of procedure of a more general nature applicable also to other jurisdictions. The presiding instructor is an attorney of experience and the aim is to supply as far as possible an actual working knowledge of trial procedure so that a graduate on leaving the school will be prepared at once to enter upon all phases of the work of the profession.

Third year men act as leading counsel, second year men as junior counsel, and first year men as jurors, officers, etc. Such practice court work is required of all students, and first year men may be given one hour's credit each semester for this together with the courses of special lectures.

LITERARY SOCIETIES

Students are encouraged to take an active part in the law literary societies, and to organize quiz clubs and club courts for legal discussion. The Sooner Bar literary society, organized by the law students, has for its objects the double purpose of training in public speaking and training in legal argumentation. The Ames, Monnet, the Foster, and the Williams, club courtsare very active and profitable organizations for the presentation and trial of questions of law.

PRIZES

American Law Book Company Prize: The American Law Book Company offers to a third year student a prize consisting of the first thirteen volumes of the Cyclopedia of Law and Procedure to be awarded at the discretion of the law faculty. This prize, valued at $97, the faculty has decided to award at the time of graduation to

the most meritorious student in the third year class, taking into consideration the entire course. The award will be based on grades in examinations, class-room proficiency, ability in logical and succinct statement, interest displayed in club courts and other law school activities, use of the library, and strength of character.

The Callaghan & Company Prize: Callaghan & Company, Law Publishers, of Chicago, offer the Cyclopedic Law Dictionary as an annual prize to the student in the second year class who attains the highest proficiency and the best general average for the year.

For description of other prizes available to law students see scholarship and prizes, under General Information.

PHYSICAL TRAINING

All students in the School of Law, who have not had one year of college work, or work in some other law school entitling them to one year's advanced standing, are required to take physical training to the extent of two hours during their course under the direction of the physical director of the university. Such "hour" represents approximately three hours of exercise a week during a period of time equal to one semester. Students engaging in special athletic activities are with the consent of the physical director allowed to substitute these for the regular physical training. This rule with reference to physical training is believed to make for well-balanced educational development.

ADMISSION AND GRADUATION

THREE YEAR COURSE

The work of the School of Law extends through three college years. There are three classes: the First Year Class, Second Year Class, and Third Year Class. Lectures and recitations are held on five days in the week, principally in the usual morning hours. Students may enter at the beginning of either semester. Late registration should be avoided.

ADMISSION

Applicants for admission to the School of Law must be at least eighteen years of age and must present evidence of having completed fifteen units of acceptable entrance credit. A unit is the standard amount of work required in a secondary school subject given thirty-six weeks with five recitation periods a week of at least forty-five minutes each. Thus fifteen units represent an ordinary four years' high school course.

The following units are required for admission to the School of Law:

English	3 units
Mathematics	2 units
*Electives	10 units
Total	15 units

*A description of all work that may be offered to satisfy the required or elective units as well as a statement of the ways in which credit may be secured for work done in high school may be found in the university catalogue, under the head of "Admission."

SPECIAL STUDENTS

Applicants, not less than 21 years of age and not candidates for the degree, who do not possess the above educational qualifications for admission of regular students, may be admitted to the courses in the School of Law provided they can satisfy the dean that they are prepared to carry the work successfully. Such students will be expected to conform to the same requirements as to attendance and examination and will be entitled to the same privileges as regular students. Certificates stating the branches completed and the standing

attained will be given to such students who have been in residence for a semester.

Such special students who have completed the curriculum and have been in residence three years may be recommended for a degree by special action by the law faculty, provided that they have displayed unusual ability and scholarship.

ADVANCED STANDING

Applicants qualified to enter the School of Law as candidates for a degree, who have satisfactorily completed one or more years of resident work in a law school of good standing having a three years' course, will be given equivalent rank in this school upon presenting properly authenticated certificates of such work. The right is reserved to give credit only on examination. All persons who intend to apply for advanced standing under the above rule should forward or present their credentials to the dean at least one week before the opening of the particular session which they desire to attend.

Such certificate should show the length of time in semester hours given to each subject, the books used as the basis of instruction, the method of grading used in such school, the grades made by the applicant, and whether the school has a three years' course. Credit will never be given for more than two years' work done in other schools. No credit will be given for reading or work done elsewhere than in an approved law school.

GRADUATION

The degree of Bachelor of Laws (LL. B.) is conferred upon all regular students not less than 21 years of age who have completed the prescribed work of the course. This course requires three years for its completion and no student is allowed to graduate except after three years of actual residence, unless in case of admission to advanced standing, in which case he must likewise have spent sufficient time in some other acceptable law school having a three years' course, to amount to a total of three years when added to the time spent here. The time spent in residence at this law school must in every instance be at least one year. In exceptional cases the degree may be conferred on special students. See provisions as to special students.

LAW ELECTIVES—ADDITIONAL WORK

Under certain circumstances seniors in the College of Arts and Sciences may elect all or part of their last year's work in the School of Law in such a way as to enable them to secure the B. A., and the LL. B. degrees in six years instead of the seven regularly required The

following regulation applies to such students together with all others pursuing courses in the School of Law, viz: No student in the School of Law who is taking the full course in law shall be allowed to take additional courses elsewhere at the same time except upon permission of the dean and petition to the faculty. No student shall be entitled to take such additional work as a matter of course, and no such petition will be granted unless he can convince the faculty that it will not decrease the amount of time spent upon his legal studies and that it will be for his best interest and the best interests of the School of Law. Students enrolled in the School of Law for more than half of the full law course shall likewise be entitled to take additional work elsewhere only on the above conditions.

ADMISSION TO BAR

Under statutory authority the Supreme Court of this state has prescribed and published rules governing admission to the bar. These rules require that the candidate must be of good moral character and over 21 years of age; and that he shall satisfactorily answer the written interrogatories propounded covering the subjects enumerated. These subjects are all included in the curriculum of the School of Law. As to educational qualifications and length of the period of legal study required, candidates are referred to the rules. Examinations are held at convenient intervals and are conducted by a regular commission of bar examiners duly appointed by the Supreme Court.

By a recent ruling of the State Bar Commission, graduates of the School of Law are admitted to the bar without examination. They may then be admitted on motion to practice law in the federal courts of this state.

EXPENSES

Tuition is free in the School of Law as in all other departments of the university. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

A fee of $5.00 for a student enterprise ticket will be collected from each student at the time of enrollment. This ticket entitles the student to admission to all lecture course numbers, debating, athletic, musical, oratorical, dramatic, and other general university affairs. The payment of this fee is not compulsory but it is expected that each student will purchase the ticket because of the many advantages accruing therefrom; it is necessary that every student buy one in order to make this plan of supporting student affairs a success. It is hoped,

therefore, that the loyalty of the students toward the general interests of the university will be such that there will be no requests for exemption from this payment.

BOARD, ROOMS, AND BOOKS

Board, including furnished rooms, can be had for from $4.00 to $6.00 a week. The average cost of living is as low in Norman as in any town of its size in the state. Board alone costs from $3.00 to $4.50. Rooms for two may be secured for $6 to $12 a month.

The cost of books used in the School of Law is about $35 a year.

If further information is desired as to any of the matters set forth in this catalogue, inquiries should be addressed to

The Dean of the School of Law,
Norman, Oklahoma.

CURRICULUM

The hour which constitutes the unit of credit as used in this catalogue except with reference to physical training is understood to mean one lecture hour a week, or its equivalent, for one semester.

It is desired that every student who enters the School of Law shall take full and not partial work, unless the circumstances be exceptional. A member of the first year class will not be permitted to take any regular course of the second and third year, and a member of the second year class will not be permitted to take third year courses unless for special cause shown and then only by permission of the dean.

Instruction is so arranged as to present fundamental subjects first, followed by specialized subjects later.

FIRST YEAR SUBJECTS

First Semester

Elementary Law: This course is designed to give the student an initial general survey of the entire body of the law in order that he may more intelligently comprehend the work in the other courses. Smith's Elementary Law. Professor Seavey. 2 hours.

Contracts: Mutual assent; offer and acceptance; consideration; contracts under seal; rights of beneficiaries; rights of assignees; joint and several contracts; conditional contracts; illegality; impossibility; duress; discharge. Williston's Cases on Contracts. Professor Monnet. 4 hours.

Torts: Trespass to person and property; excuses for trespass; conversion; legal cause; negligence; duties of land owners; dangerous occupations; deceit; defamation; slander; libel; malice; malicious prosecution; inducing breach of duty; competition; strikes; boycotts; combinations. Ames and Smith's Cases on Torts. Professor Seavey. 2 hours.

Property I: Distinction between real and personal property; personal property; transfer of rights; bailments; tenures; estates; seisin; statute of uses; natural rights; easements; covenants; rents; landlord

and tenant; emblements; fixtures. Gray's Cases on Property, Vols. I and II. Professor Foster. 4 hours.

Special Lectures: Courses of lectures on a variety of subjects will be given by special lecturers for which one hour's credit may be allowed, together with practice court services. 1 hour.

Second Semester

Contracts: Continuation of course outlined in the first semester. Williston's Cases on Contracts. Professor Monnet. 2 hours.

Common Law Procedure: Forms of action; motions and demurrers; defects in form and substance; defaults; dilatory pleas; confession and avoidance; cross demands; replications; further pleadings; amendments. A number of lectures in the course will also be given on equity pleading. Ames' Cases on Pleading and Whittier's Cases on Pleading. Professor Cheadle. 2 hours.

Torts: Continuation of course outlined in the first semester. Professor Seavey. 2 hours.

Criminal Law and Procedure: Criminal acts; attempts; consent; criminal intent; justification; parties; agency; accessories; jurisdiction; murder; manslaughter; larceny; burglary; other crimes; criminal procedure. Beale's Cases on Criminal Law, and the Oklahoma cases, penal statutes, and statutes of criminal procedure. Professor Seavey. 4 hours.

Domestic Relations: Contract to marry; breach of promise; common law marriage; capacity; consent; husband and wife; wife's contracts; wife's property; wife's person; torts by each; divorce; grounds for granting and refusal; alimony; parent and child; maintenance; tort; legitimacy; infancy; contracts and torts; insanity; drunkeness; aliens. Woodruff's Cases on Domestic Relations. Professor Kulp. 2 hours.

Special Lectures: Continued as indicated in the first semester. 1 hour.

SECOND YEAR SUBJECTS

First Semester

Agency: Nature of relation; appointment; liabilities of principal; torts; crimes; admissions; liabilities of agent; parties to writings; undisclosed principal; obligation between principal and agent; delegation of agency; termination; ratification. Wambaugh's Cases on Agency. Professor Kulp. 2 hours.

Equity: Nature of jurisdiction; specific performance; affirmative contracts; negative; third persons; consequences of specific performance; partial performance; consideration; marketable title; statute of

frauds; mistake; hardship; mutuality; specific reparation; waste; disturbance of easements; nuisance; monopoly rights. Ames' Cases in Equity Jurisdiction. Professor Monnet. 2 hours.

Evidence: Admissibility; relevancy; circumstantial; qualification; impeachment; admission; real evidence; documents; hearsay rule; exceptions; dying declarations; against interest; pedigree; subscribing witness; regular entries; reputation; records; order of evidence; opinion; privileged communications; burden of proof; judicial notice. Wigmore's Cases on Evidence. Professor Cheadle. 4 hours.

Property 2. Including Wills: Acquisition of real property inter vivos; statute of limitations; prescription; releases; surrenders; boundaries; estates created; easements created; covenants of title; execution of deeds; acquisition after death; wills; making revocation and republication; lapsed legacies; administration; payment of debts; marshalling. Gray's Cases on Property, Vols. III and IV. Professor Foster. 2 hours.

Mortgages: Legal mortgage; title theory; lien theory; equitable mortgages; absolute deed; conditional sale; reservation of title; after acquired property; subsequent advances; priority between mortgage liens; rights to possession; receipt of rents and profits; right to redeem; purchase of equity of redemption; clogging the equity of redemption; consolidation of mortgages. Wyman's Cases on Mortgages. Professor Monnet. 2 hours.

Bailments and Carriers: The nature of public service; the classes of occupations embraced; the peculiar obligations; to serve all with reasonable facilities, at a reasonable price and without discrimination; the special obligations of bailees and carriers. Wyman's Public Service Corporations. Professor Seavey. 2 hours.

Second Semester

Sales: Sales of goods when something remains to be done; when nothing remains; goods not specified; subsequent appropriation; reservation of jus disponendi; C.O.D.; fraud; retention of possession; delivery; factor's liens; stoppage in transitu; warranty; statute of frauds. Williston's Cases on Sales. Professor Foster. 4 hours.

Code Pleading and Practice: One form; special preceedings; real party in interest; joinder of plaintiffs and defendants; petition; ultimate facts; union of causes of action; answer; new matter; equitable defenses; counterclaims; reply; demurrer. Hinton's Cases on Code Pleading and the Oklahoma statutes and decisions on civil procedure. Professor Cheadle. 2 hours.

Equity: Continuation of course described in the first semester. Ames' Cases in Equity Jurisdiction. Professor Monnet. 2 hours.

Agency: Continuation of course described in the first semester.

Wambaugh's Cases on Agency. Professor Kulp. 2 hours.

Property 2. Including Wills: Continuation of course described in the first semester. Professor Foster. 2 hours.

Suretyship: Kinds of suretyship; statute of frauds; surety's defenses; surety's right to subrogation; indemnity; contribution; exoneration; creditor's right to surety's securities. Ames' Cases on Suretyship. Professor Monnet. 2 hours.

THIRD YEAR SUBJECTS

First Semester

Bills and Notes: Formal requisites; acceptance; indorsement; transfer; purchase for value without notice; overdue; extinguishment; obligations of parties; checks; diligence; presentment, dishonor, protest, notice; the negotiable instruments law. Ames' Cases on Bills and Notes. Professor Kulp. 4 hours.

Constitutional Law: Nature of the constitution; relation of the states to the federal government; departments of government; taxation; commerce; police power; bankruptcy; currency; implied powers; powers of the executive; the judicial department; checks and balances; government of the territories; state comity; civil rights; political privileges; protection of contracts and property; due process of law; the status of recently annexed island territory. Hall's Cases on Constitutional Law. Professor Foster. 2 hours.

Trusts: Nature and requisites; express, resulting, constructive, charitable; appointment of trustee; nature of cestui's interest; transfer by trustee or cestui; cestui's interest how affected by death, marriage, or bankruptcy of trustee or cestui; duties of trustee; removal; resignation; accounting. Ames' Cases on Trusts. Professor Seavey. 2 hours.

Damages: Exemplary; liquidated; nominal; direct; consequential; avoidable; counsel fees; certainty; compensation; physical and mental suffering; aggravation and mitigation; value; interest; special rules in certain tort and contract actions. Mechem and Gilbert's Cases on Damages. Professor Kulp. 2 hours.

Practice Court: Drawing, criticising, and discussing pleadings; commencement of actions; issuance and service of process; motions; issues of law or demurrers; introduction of evidence; arguments of counsel; instructions to jury; verdict and judgment; motions for new trial; exceptions; appeal. Professor Cheadle. 4 hours.

Second Semester

Corporations: Distinction between corporations and partnerships; disregarding the corporate fiction; formation of corporation, powers; what are corporate acts; de facto corporations; collateral at-

tack; ultra vires; promoters; directors; rights of minority shareholder; creditors; watered stock; transfer; ownership by corporation of shares of its own or other corporate stock; validity of voting trusts. Canfield and Wormser's Cases on Corporations. Professor Kulp. 4 hours.

Conflict of Laws: Comity; territorial jurisdiction; domicile; taxation; jurisdiction in rem and in personam; marriage; legitimacy and adoption; movables and immovables; marital property; intestate and testamentary succession; place of contracting; interpretation, effect, and discharge of contracts; administration of estates; wardships; judgments, their nature, obligation, and effect. Beale's Cases on Conflict of Laws, Shorter Selection. Professor Monnet. 2 hours.

Property 3: Illegal conditions and restraints; forfeiture and restraints on alienation; priority; fradulent conveyances; purchases for value; registration; effect of notice; conversion; election; joint ownership; conveyance by metes and bounds; curtesy and dower. Gray's Cases on Property, Vol. VI, and assigned topics. Professor Foster. 2 hours.

Partnership: Nature of a partnership; formation of partnership; firm name and good will; mutual rights and duties; actions between partners at law and in equity; powers and liability of partners; dissolution; debts; distribution of assets. Gilmore's Cases on Partnership. Professor Seavey. 2 hours.

Practice Court: Continuation of the course outlined in the first semester and trial of cases. Professor Cheadle. 4 hours.

THE SCHOOL OF MEDICINE

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

‡CURTIS RICHARD DAY, PH. G., M. D.
Dean of the School of Medicine, Professor of Pathology, Serology, and Clinical Microscopy.

†EDWIN DEBARR, M. S., Ph. D.
Professor of Chemistry.

*HENRY HIGGINS LANE, M. A.
Professor of Zoology.

WALTER LEANDER CAPSHAW, M. D.
Professor of Anatomy.

*LOUIS ALVIN TURLEY, A. M.
Professor of Histology and Pathology.

JOHN CHESTER DARLING, M. S., M. D.
Physical Director.

ARCHA KELLY WEST, M. D.
Professor of Medicine.

ROBERT MAYBURN HOWARD, M. D.
Associate Professor of Surgery.

EDMUND SHEPPARD FERGUSON, M. D.
Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff.

JOHN WILLIAM RILEY, M. D.
Professor of Genito-Urinary Surgery.

HORACE REED, M. D.
Associate Professor of Surgery.

JOHN ARCHER HATCHETT, M. D.
Professor of Obstetrics and Gynecology.

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‡Dean from February 1, 1914.
†On leave of absence, 1913-1914.
*On leave of absence, 1914-1915.
NOTE: For addresses see faculty list in general catalogue.

ABRAHAM LINCOLN BLESH, M. D.
Associate Professor of Surgery.

LAUREN HAYNES BUXTON, M. D., LL. D.
Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff.

GAYFREE ELLISON, B. S., M. D.
Professor of Bacteriology.

EDWARD FRANCIS DAVIS, M. D.
Associate Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physician, Dispensary Staff.

JOHN SMITH HARTFORD, M. D.
Associate Professor of Gynecology, Chief of Dispensary Staff, and Attending Gynecologist.

GEORGE ALTHOUSE LAMOTTE, B. L., M. D.
Associate Professor of Medicine.

LEWIS JEFFERSON MOORMAN, B. S., M. D.
Associate Professor of Medicine.

LEONARD BLAINE NICE, Ph. D.
Professor of Physiology.

LEA ARMISTEAD RIELY, A. M., M. D.
Associate Professor of Medicine.

HARRY COULTER TODD, M. A., M. D.
Associate Professor of Eye, Ear, Nose, and Throat Diseases, Attending Physican, Dispensary Staff.

ANTONIO DEBORD YOUNG, M. D.
Associate Professor of Nervous and Mental Diseases.

Assistant Professors

HOWARD STORM BROWNE, B. A., Ph. C., M. S.
Assistant Professor of Pharmacy.

WILLIAM RICHARD BEVAN, M. D.
Assistant Professor of Obstetrics.

SAMUEL ROBERT CUNNINGHAM, M. D.
Assistant Professor of Gynecology, Attending Gynecologist, Dispensary Staff.

RICHARD LELAND FOSTER, A. M., M. D.
Assistant Professor of Medicine.

Charles Earnest Hamner, M. D.
Assistant Professor of Bacteriology.

Robert Lord Hull, A. B., M. D.
Assistant Professor of Orthopedic Surgery.

John Frederick Kuhn, Ph. G., M. D.
Assistant Professor of Surgery.

Everett Samuel Lain, M. D.
Assistant Professor of Dermatology Electro-Therapy, and Radiography.

Robert Elmore Looney, M. D.
Assistant Professor of Obstetrics.

Joseph Thomas Martin, A. M., M. D.
Assistant Professor of Children's Diseases, Attending Pediatrist, Dispensary Staff.

Joseph Fife Messenbaugh, M. D.
Assistant Professor of Children's Diseases.

Edgar Elmer Rice, A. B., M. D. (Shawnee.)
Assistant Professor of Gynecology.

Millington Smith, M. D.
Assistant Professor of Clinical Surgery.

Ralph Vernon Smith, M. D. (Guthrie.)
Assistant Professor of Surgery.

Frank Bruner Sorgatz, M. D.
Assistant Professor of Medicine, Attending Physician, Dispensary Staff.

William Merritt Taylor, B. S., M. D.
Assistant Professor of Children's Diseases.

Curt Otto von Wedel, Jr., M. D.
Assistant Professor of Surgery, Attending Surgeon, Dispensary Staff.

Leigh Festus Watson, Ph. G., M. D.
Assistant Professor of Surgery.

Arthur Weaver White, M. A., M. D.
Assistant Professor of Medicine.

Arthur Anderson Will, M. D.
Assistant Professor of Rectal Surgery.

*William Jones Wallace, Ph. C., M. D.
Assistant Professor of Genito-Urinary Diseases.

Instructors

John Mosby Alford, M. D.
Instructor in Therapeutics.

Annette Bourbon Cowles, R. N.
Superintendent of the Hospital, with rank of Instructor.

Floyd Jackson Bolend, Ph. C., M. D.
Instructor in Children's Diseases, and Hospital Anaesthetist.

Rex George Bolend, B. S., M. D.
Instructor in Medicine, and Hospital Anaesthetist.

Thomas Craig Burns, M. D.
Instructor in Nervous Diseases.

Charles Duncan Ferguson, M. D.
Instructor in Eye, Ear, Nose, and Throat Diseases.

William Alonzo Fowler, L. I., M. D.
Instructor in Obstetrics.

Andrew Merriman Young, M. D.
Instructor in Obstetrics.

Martha Eggleston Zimmerman, R. N.
Assistant Superintendent of the Hospital, with rank of Instructor.

Cyril Ebert Clymer, M. D.
Instructor in Surgery.

Casriel J. Fishman, Ph. C., B. S., M. D.
Instructor in Medicine.

‡George Hunter, M. D.
Instructor in Obstetrics.

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*From February 9, 1914.
‡From February 1, 1914.

THE SCHOOL OF MEDICINE

The first and second years of the School of Medicine were established at Norman in 1900. The third and fourth years were established at Oklahoma City in 1910, upon the disbanding of the Epworth College of Medicine, which had been conducted in Oklahoma City since 1904, and upon the tender of the services of members of its faculty to the state in order to effect this consolidation.

In the spring of 1911 the new State Board of Education, created by the Legislature in session that year, became the governing body of the university instead of the former Board of Regents. The state board at once ordered a reorganization of the medical school in order to bring it fully abreast of the modern requirements in medical education. Excellent school accommodations were provided and the necessary hospital control acquired, so that the School of Medicine, now well equipped with every essential for good teaching and manned by a carefully selected corps of experienced teachers, offers to-day a thoroughly modern course of instruction which conforms to the highest approved standards.

The school is a member of the Association of American Medical Colleges and maintains strictly all of the rules and requirements of that organization.

REQUIREMENTS FOR ADMISSION

The requirements for admission to the School of Medicine are graduation from an accredited high school offering 15 units, and one year of college work in physics, chemistry, and biology and a reading knowledge of at least one modern language besides English, preferably German or French. The following table shows the 15 high school units required:

Subjects	Units
English	3
Algebra	1
Plane Geometry	1
History	1
Latin	2
Physics	1
Electives	6
Total	15

*For complete description of subjects accepted for admission see General Catalogue under "Admission."

In order to fulfill the requirement of one year of college work the student should take the following courses:

First Semester		Second Semester	
Course	Hours	Course	Hours
Chemistry 1	4	Chemistry 2	4
Botany 1	4	Zoology 2	4
Physics 1	4	Physics 2	4
*Modern Language	4	*Modern Language	4
Physical Training 1	1	Physical Training 2	1

*Students offering two units of modern language for admission should substitute English 1 and 2 for modern language.

Students who possess only the 15 units of secondary work required for admission to the School of Medicine may secure the year of college work conveniently in the College of Arts and Sciences of the University of Oklahoma.

Examinations and Certificates

Students who are not graduates of an approved secondary school or college are admitted on examination. Certificates from other members of the Association of American Medical Colleges are accepted for admission.

Advanced Standing

Four years of residence in a medical school are required by schools in the Association of American Medical Colleges of all candidates for the degree of Doctor of Medicine. Time credit will be given for work done in another medical school, whose sessions are not less than 32 weeks a year, but subject credit will be allowed only for work done in medical schools which maintain standards of entrance and work equal to those of this school of medicine. Subject credit, however may be given upon examination for work done in other colleges.

BACHELOR OF SCIENCE COURSE IN MEDICINE

Medical students are advised to secure two years of college training before entering the School of Medicine. Students who have completed at least 60 academic hours in the College of Arts and Sciences may enter the School of Medicine and after completing the first two years' work, be recommended for the degree of Bachelor of Science (in Medicine) in the College of Arts and Sciences. Subjects given in the School of Medicine will not be counted in making up the 60 hours required in the College of Arts and Sciences.

In addition to satsifying the entrance requirements of the College of Arts and Sciences, the student must complete the prescribed work,

the group electives**, and the subjects prescribed for admission to the School of Medicine.

The following outline of courses will comply with these requirements:

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
Chemistry 1	4	Chemistry 2	4
Modern Language	4	Modern Language	4
Botany 1	4	Zoology 2	4
Physical Training	1	Physical Training	1
	17		17

Second Year

Physics 1	4	Physics 2	4
History 1	4	Physiology 1	4
*Mathematics or Ancient Language	4	*Mathematics or Ancient Language	4
General Psychology	4	Experimental Psychology	4
Physical Training	1	Physical Training	1
	17		17

*Students offering four units of Latin or three and one-half units of Mathematics for admission may substitute modern language or other subjects.

**Under special conditions the student may be excused from completing the group electives by the Dean of the College of Arts and Sciences.

STANDARD FOUR YEARS' COURSE IN MEDICINE

The School of Medicine offers the standard four years' curriculum leading to the degree of Doctor of Medicine. The work of the first and the second years is done in the laboratories at Norman. The libraries, museums, and other facilities of the University of Oklahoma are used in the medical instruction. The work of the third and the fourth years is done at Oklahoma City.

REQUIREMENTS FOR GRADUATION

A candidate for the degree of Doctor of Medicine (M. D.) must be twenty-one years of age, and of good moral character. He must have studied medicine for four years and must have received credit for at least four annual courses of medical instruction in four different calendar years at approved medical schools, of which the last an-

nual course must have been studied in this school. At least ten months must have intervened between the beginning of one year's work and that of the next. He must have complied with all the rules and regulations of this school and must have paid all fees. He must have attended at least 80 per cent of the exercises in each annual course, and he must have been four years in residence in approved medical schools.

MEDICAL FACILITIES AT NORMAN

The medical facilities at Norman include the laboratories of chemistry and pharmacy with rooms for work in general, organic, and physiological chemistry, qualitative and quantitative analysis, pharmacy, and pharmacognosy. Medical laboratories with rooms for normal and pathological histology, bacteriology, materia medica, and physiology are also available in Science Hall. Embryology is given in the department of zoology. The anatomical building contains a large dissecting room and a laboratory for osteology, a preparation room, and a recitation room in which are the osteological collection, many of the anatomical charts and models, and the departmental library. The departmental library, intended for daily reference, is accessible at all times.

Oklahoma Hospital for Insane

The Oklahoma Hospital for the Insane is located at Norman, about two miles from the School of Medicine. There are seven hundred beds, and the daily census has shown a full quota of patients. The faculty and students have the privilege of studying there all forms of mental diseases and many rare conditions. There is also a weekly medical and surgical clinic for the special benefit of the advanced medical students.

CLINICAL FACILITIES AT OKLAHOMA CITY

Oklahoma City, with a population of over 75,000, offers excellent opportunities for clinical instruction. The city is well supplied with hospitals. A great deal of emergency work occurs besides the usual diseases incident to a city of this size. Clinical instruction is given wholly in small sections so that every student has opportunity for personal observation of cases shown.

School Building

The school building, formerly a private residence, is located at 317 East Fourth Street, and adjoins the State University Hospital. It is an imposing brick building of Colonial style, standing on high ground. In it are suitable lecture rooms, the clinical laboratory, and the library. The library is open for the use of students throughout the day, and

THE SCHOOL OF PHARMACY

The School of Pharmacy, organized in 1893, is an integral part of the University of Oklahoma. It was the first school added to the university after the organization of the College of Arts and Sciences, and since its organization it has maintained a steady growth. The school offers thorough and practical courses in all the various subjects pertaining to pharmacy, and prepares the student to pursue any of the various branches of the profession.

Pharmacy is the science and art of preparing, compounding, preserving, and dispensing medicines whether reference is made to the profession in the sense of either retail or wholesale relationship. The necessity for technical training in this subject is apparent to all who are seeking to prepare themselves for the more responsible positions, open only to those who are thoroughly trained as prescriptionists, manufacturing pharmacists, or industrial and analytical chemists.

It is the aim of the School of Pharmacy to co-operate with the pharmacists of the state in their efforts to elevate and maintain the profession of pharmacy.

Registration as Pharmacists

No person can legally practice pharmacy in Oklahoma unless he is registered by the State Board of Pharmacy. The board meets regularly on the first Tuesday and Wednesday of January, of April, of July, and of October, to examine candidates who desire to obtain a license to practice pharmacy in the state. Graduates from the School of Pharmacy of the university who have had one year of experience outside of the school course, are registered without examination on application, payment of fee, and presentation of their diplomas.

Three Plans of Work

In accordance with the requirements of the New York State Department of Education and the recommendations of the American Conference of Pharmaceutical Faculties, this school offers three separate plans of work. The two years' plan comprises four semesters of four and one-half months each. It equips the student for practical work with the minimum preparation. The three years' plan comprises six semesters of four and one-half months each and is designed more especially for those who wish to enter the commercial field of phar-

maceutical chemistry or food and drug analysis. It also enables the pharmacist to strengthen his professional relations by the practice of urinary, bacteriological, and toxicological analysis for the physician. The four years' plan includes academic as well as professional courses, and is designed to give the student a liberal education as well as to fit him for work demanding a broader scientific and professional knowledge than may be required in a shorter time.

DEGREES

The degree of Graduate in Pharmacy (Ph. G.) will be conferred upon a student who completes the plan of study outlined to cover two years with a total of 66 hours of credit, two hours of which must consist of physical training.

The degree of Pharmaceutical Chemist (Ph. C.) will be conferred upon a student who completes the plan of study outlined to cover three years with a total of 99 hours of credit, such work to include the courses necessary to the completion of the two years' plan.

The degree of Bachelor of Science in Pharmacy (B. S., in Pharmacy) will be conferred upon a student who completes the plan of study outlined to cover four years with a total of not less than 124 hours of credit, such work to include the courses necessary to the completion of the three years' plan.

ADMISSION

Applicants for admission to the School of Pharmacy should be at least seventeen years of age. Admission may be either by certificate or by examination. Graduates of affiliated high schools may present their certificates to the registrar on or before matriculation, as full credit will be given for all approved courses taken in such schools. Credentials from other high schools of recognized standing should be filed with the committee on admission at least two weeks before the opening of school. All applicants who do not hold such certificates or credentials should present themselves for examination.

Admission may be either to first year work without condition, to work as an unclassified student, or to advanced standing.

Admission to First Year

The requirements for admission are usually stated in units. A unit is the standard amount of work required in a secondary school subject, given five times a week, thirty-six weeks, with recitation periods not less than forty minutes in length. Seven units properly selected will admit to the two-years' plan, and fifteen units properly

selected, to the three years' plan and the four-years' plan. The units required are given below:

Subjects	Two Year	Three Year and Four Year
English	2	3
Algebra	1	1
Plane Geometry		1
History	1	1
*Latin	1	2
Physics		1
Electives	2	6
Total	7	15

*Students who enter without Latin will be required to enroll in the course of elementary Latin which is included in the first semester's work for the Ph. G. degree.

A more detailed statement of the university's plan of admission will be found in the general catalogue, under the head of "Admission."

Unclassified Students

Applicants for admission, twenty-one or more years of age, not candidates for a degree, who wish to take certain courses in the School of Pharmacy without first bringing up the regular entrance requirements, are admitted as unclassified students and permitted to take such courses upon giving satisfactory evidence that they are prepared to carry them to advantage. If they subsequently desire to become candidates for a degree, they must make up the entrance and all other requirements for the degree, they may select.

Advanced Standing

Advanced standing will be given for any work properly done in a school having equal entrance and other requirements. Application must be made for advanced standing at matriculation.

Tuition

Tuition is free in all departments of the university. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

In laboratory courses students must pay the actual cost of material used in accordance with the statement under the heading

Fees and Deposits, under General Information in the general catalogue.

Correspondence Courses

For the benefit of students who are not able to attend the university, the School of Pharmacy plans to give such course in the University Extension Department as the nature of the courses themselves will permit, and the faculty deem it advisable to offer. These courses will be accredited by the University of Oklahoma towards the degree of Bachelor of Science in Pharmacy, and the degree of Pharmaceutical Chemist. Only two courses may be taken at one time by each student. The courses at present offered will be found listed under the courses in Pharmacy. Other courses will be given in the future as the demand warrants.

The charges for the courses offered by correspondence will be $14.00 for each course, in order to cover the cost of postage and clerical work.

LABORATORIES

Chemical and Pharmaceutical Laboratories

The laboratories comprise well equipped rooms in the Science Hall as follows:

Two general lecture rooms.
A laboratory of general chemistry.
Two laboratories of quantitive and organic chemistry.
A research laboratory.
Three private laboratories and offices.
A laboratory for water and food analysis.
A dispensing room.
A balance room.
A general pharmacy laboratory.
A pharmacognosy and prescription room.
A private pharmacy room and office.
An instrument room.

PHARMACY AS A PROFESSION

Never before have opportunities in pharmacy been so great and never in its history has this profession rendered a more important service to mankind. The many advances in the science of medicine and the enactment of important laws both state and national, regulating the manufacture and sale of drugs and medicines have stimulated a cooperative advancement along pharmaceutical lines. The opportunities that are open to those who would keep pace with these advancements are innumerable. Analytical and research chemists

with a knowledge of pharmacy have no difficulty in obtaining remunerative and attractive positions in manufacturing plants and in municipal, state, and national laboratories. The practicing pharmacist in every community occupies a position of importance and responsibility surrounded with opportunities limited only by his own ability as determined by his native talent and the extent to which he has been trained in the science.

PURE FOOD AND DRUG COURSES

Since the passage of the National Food and Drug Act of June 30, 1906, there has developed an increasing need for trained chemical, pharmaceutical, and microscopical analysts to fill positions for the United States Government, in State Public Health, Pure Food and Drug Laboratories, for large manufacturing houses and dealers in drugs and chemicals.

The State Pure Food and Drug and Public Health Laboratories are located at the university. The School of Pharmacy is very closely associated with this department and students of the school have free access to the laboratories and may elect courses in food, drug and sanitary water analysis. The laboratories are splendidly equipped with polariscopes, extraction apparatus, centrifuges, and all other instruments and equipment needed in carrying on the various phases of the work.

Graduates of the three year and the four year courses in pharmacy are eligible for positions as food, drug and sanitary analysts for the government, the various states, and commercial houses. Students in the School of Pharmacy are especially prepared to pursue this class of work since pharmacy plays as large a part in the analytical work as does chemistry.

PHYSICAL TRAINING

All students in the School of Pharmacy, except those who are admitted with one or more years of advanced standing or with a year of college work, are required to take physical training to the extent of two hours during their course. Such "hour" represents approximately three hours of exercise a week during one semester.

The systematic participation in athletic sports, such as football, baseball, tennis, basket ball, boxing, fencing, wrestling, and track athletics under the direction of the physical director or coach is regarded as fulfilling these requirements.

PRIZES

The John Barbour Senior Prizes: Recommendation to membership in the American Pharmaceutical Association with one year's

dues to each of two senior students in the School of Pharmacy receiving the highest grades in all courses pursued during their senior year.

The John Barbour Junior Prize: A leather bound indexed copy of the National Standard Dispensatory to the junior student who receives the best average grade in all branches.

Howard Storm Browne Prize: Recommendation to membership in the American Pharmaceutical Association with one year's dues to the student receiving the best grade in Materia Medica 4.

SPECIAL LECTURES

Lectures on the subject of pharmaceutical jurisprudence are delivered by members of the faculty of the School of Law. Each lecturer being a recognized authority on the subject assigned to him, the students of the School of Pharmacy enjoy an unusual privilege in their study of law in its relation to the pharmacist.

Other lectures on subjects of interest to the profession are given from time to time by out-of-town speakers.

STOCKONIAN SOCIETY

This society has been organized in order to bring into closer relation the School of Pharmacy at the University of Oklahoma and the students and faculty of the School of Pharmacy, to upbuild the school, to promote the mutual welfare of the students and faculty, and to perpetuate friendship and good fellowship with one another.

All students enrolled in the School of Pharmacy are eligible to membership. Meetings are held on the first and third Tuesday nights of each month during the college year. An address is usually given by an outside speaker upon a subject of special interest to pharmacy students. In addition to this part of the program the students obtain valuable drill in parliamentary practice, and discuss current topics relative to pharmacy.

READING TABLE

The reading table of the School of Pharmacy is well supplied with a large number of the best drug journals published. Among them are the following named journals: Bulletin of Pharmacy; Western Druggist; Pharmaceutical Era; Pacific Drug Review; Meyer Brothers Druggist; McPikes Bi-Monthly; Western Drug Record; Northwestern Druggist; Midland Druggist and Pharmaceutical Review; The Apothecary; The Spatula; The Southern Pharmaceutical Journal; The Western Drug Record; N. A. R. D. notes.

OUTLINE OF WORK

TWO YEAR PLAN

Outline of Courses Leading to the Degree of Graduate in Pharmacy

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Pharmacy 1	4	Pharmacy 2	4
Chemistry 6	6	Chemistry 4	4
Botany 3	4	Botany 4	4
*Elementary Latin	3	Pharmaceutical Latin	2
Physical Training 1	1	Physical Training 2	1
	18		15

Second Year

First Semester		Second Semester	
Pharmacy 3	4	Pharmacy 8	3
Chemistry 5	4	Materia Medica 3	4
Chemistry 121	4	Pharmacy 6	2
Materia Medica 4	4	Chemistry 122	4
		Materia Medica 5	4
	16		17

THREE YEAR PLAN

Outline of Courses Leading to the Degree of Pharmaceutical Chemist

The first two years under this plan must include all work necessary to receive the degree of Graduate in Pharmacy and the following courses in addition:

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Pharmacy 9	4	Materia Medica 7	4
Foreign Language	4	Foreign Language	4
Bacteriology 5	2	Hygiene 1	3
Chemistry 105	4	Chemistry 125	2
Urinalysis	2	Chemistry 126	4
	16		17

*Students offering Latin for admission will be excused from the course.

FOUR YEAR PLAN

The four year plan includes all the work above outlined under the three year plan, and one additional year, preferably identical with the first years work in the College of Arts and Sciences to be taken before entering the work in pharmacy. This year's work is as follows:

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
German	4	German	4
Physics 1	4	Physics 2	4
Mathematics 2 or 5	4	Mathematics 9	4
Physical Training 1	1	Physical Training 2	1
	17		17

Those who take the three years in pharmacy first, must secure thirty additional hours of credit from courses approved by the dean of the School of Pharmacy.

In the above courses of instruction, it is the aim of the faculty to follow as nearly as practicable the outlines of courses given in the Pharmaceutical Syllabus as recommended by the National Committee.

DESCRIPTION OF COURSES

BACTERIOLOGY

Professor Ellison

Bacteriology 5a. Pharmaceutical Bacteriology: A study of the fundamental principles of bacteriology, the relation of bacteria to disease, the study of the specific microorganisms of disease; immunity and serum therapy; the preparation and standardization of bacterines, serums, and antitoxins; and disinfectants. This course is designed especially for students of pharmacy. Lectures, assigned readings, and demonstrations. 2 hours.

BOTANY

Professor Van Vleet

Botany 3a. Pharmaceutical Botany: A study of the general morphology and histology of plants. For students of pharmacy only. Lectures, text, and laboratory. 4 hours.

Botany 4b. Pharmaceutical Botany: Instruction in this course is divided into two periods. Period 1 extends from the beginning of the semester to the first of April. Period 2 includes the remainder of the semester. 4 hours.

CHEMISTRY

Professor DeBarr, Associate Professor Williams, Assistant Professor Browne, Mr. Porter, Mr. Monroe

Chemistry 6a. General Chemistry for Pharmacy Students: A general introductory course consisting of three lectures and three laboratory periods of three hours each per week. The work of this course embraces the consideration of the general principles of chemistry, the study of the nonmetals and certain inorganic preparations. Deposit required. Associate Professor Williams. 6 hours.

Chemistry 4. Qualitative Analysis: Analysis of unknowns. Laboratory and lectures. Prerequisite, Chemistry 6. Deposit required. Mr. Monroe. 4 hours.

Chemistry 5. Quantitative Analysis: Volumetric and gravimetric estimations. Lectures and laboratory. Prerequisite, Chemistry 4. Deposit required. Associate Professor Williams. 4 hours.

Chemistry 10a. Urinalysis; For pharmacy students only. The

chemical and microscopical analysis of normal and pathological urine. Quantitative and qualitative estimations are made. One lecture and three hours laboratory per week. Assistant Professor Browne. 2 hours.

Chemistry 105b. Water Analysis: A study of sanitary, sewage, and mineral waters. Prerequisite, Chemistry 5. Deposit required. Mr. Monroe. 4 hours.

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisite, Chemistry 5. Professor DeBarr. 4 hours.

Chemistry 122b. Organic Analysis: Analysis of alkaloids and organic acids. Examination of fat and oils. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 4 hours.

Chemistry 125b. Toxicology: A study of poisons. Lectures and laboratory. This course embraces a study of the symptoms, post-mortem appearances, antidotes attendant upon poisoning, and the recovery of the poisons from the various organs of the body. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 2 hours.

Chemistry 126. Chemistry and Composition of Food Products: A study of food-stuffs and their adulteration. Lectures, recitations, and laboratory. Prerequisite, Chemistry 5 and 121. A student may take this course more than once and receive credit each time, provided the work is not duplicated. Deposit required. Professor DeBarr and Mr. Porter. 5 hours.

ENGLISH

Professor Brewer

English 1a. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence. Daily and fortnightly themes. Required of all candidates for the bachelor's degree. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it.

The course is given in eight sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, Mr. Herbert and Miss Berrigan. 4 hours.

English 2b. First Principles of English Composition: Long and short themes at stated intervals. A study of selected examples of nineteenth century prose. Lectures on the use of words. English 2 is a continuation of and presupposes English 1. Required of all candidates for the bachelor's degree.

The course is given in eight sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, Mr. Herbert and Miss Berrigan. 4 hours.

GEOLOGY

Professor Taylor

Geology 102a. Crystallography and Mineralogy: A study of the laws of crystallization, and the classification of crystals. The physical properties, chemical composition, and mode of occurrence of minerals. Prerequisite, Chemistry 6. 3 hours.

GERMAN

Professor House

German 1a. Beginning German· Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Prerequisite, two years of foreign language. Spannoofd's Elementarbuch and Bacon's Im Vaterland. Professor House. 4 hours.

German 2b. Beginning German: Bacon's Im Vaterland continued. Continuation of Spanhoofd's Elementarbuch. Prerequisite, German 1. Professor House. 4 hours.

German 9a. Scientific German: The aim of this course is to afford students of the sciences an acquaintance with technical scientific nomenclature and style. Reading of German scientific texts and articles in current technical periodicals will be required of students. Prerequisite, German 1 and 2. Wait's German Scientific Reader. Professor House. 2 hours.

German 10b. Scientific German: A continuation of German 9. Reading of German scientific texts (Goeschen Sammlung) and articles in current technical periodicals. Brief lectures in German on various topics selected from the different sciences will be required from time to time to be given in the class by the student, the subject matter to be subsequently discussed in class. Professor House. 2 hours.

HYGIENE

Professor Ellison

Hygiene 1b. Principles of Hygiene and Sanitation: A course of lectures and demonstrations with assigned readings, taking up the subjects of ventilation, heating, food, digestion, disinfection, conta gious diseases, water supplies, sewage, and sanitation, with methods of control and suppression of epidemics. Three hours.

LATIN

Professor Sturgis

Latin 10a. Elementary Latin; The chief aim of this course is

to acquaint the student with the Latin forms and with those fundamental principles of syntax which will enable him to translate Latin in the courses that he may take later. 3 hours.

Latin IIb. Pharmaceutical Latin: The aim of this course is to translate into clear and coherent English such Latin as will give the student a wide vocabulary in pharmaceutical terms. 2 hours.

MATHEMATICS

Professor Reaves

Mathematics 2a. Algebra: A careful review of the fundamental principles followed by a study of exponents and radicals, theory of quadratics, graphs, systems of equations, complex numbers, ratio and proportion, progressions, logarithms, binomial theorem. Prerequisite, one year of algebra and one year of plane geometry. Associate Professor Kent. 4 hours.

Mathematics 5. College Algebra: Embracing the subjects of imaginaries, variables and limits, permutations and combinations, binomial theorem, series, undetermined coefficients, logarithms, determinants, and theory of equations. This course presupposes a minimum of one and one-half years in algebra. Four sections first semester and one section second semester. Professor Reaves, Associate Professor Kent. 4 hours.

MATERIA MEDICA

Assistant Professor Browne

Materia Medica 3b. Elementary Physiology: This course deals in a practical way with the physiological functions of the various organs of the body together with the physiological action of typical drugs on the various organs. Text, Hough and Sedgwick's Human Mechanism. 4 hours.

Materia Medica 4a. Pharmacognosy: A study of the official vegetable, animal and more important non-official drugs with special reference to growth, identification, collection, preparation for the market, medicinal constituents, official preparations, and dose. Lectures and recitations; Culbreth's Materia Medica and Pharmacology. Fee, $1.00. 4 hours.

Materia Medica 5b. Pharmacology and Therapeutics: This course deals with the Pharmaco and Therapy Dynamics of the more important drugs, both official and non-official. 4 hours.

Materia Medica 6a. A study of the official drugs and other approved remedies, with reference to origin, preparation, dosage, and physiological action. The symptoms and treatment of poisoning, the writing of prescriptions, the dispensing and administration of reme-

dies are considered. Medical Latin is included. Lectures and assigned readings. For medical students. 2 hours.

Materia Medical 7b. Inorganic Materia Medica: A study of the official and more important unofficial mineral inorganic drugs. Their physical and chemical properties, source, methods of identification, use, and dose. Lectures, recitations, and demonstrations. 4 hours.

PHARMACY

Professor Stocking, Assistant Professor Browne

Pharmacy Ia. Theoretical Pharmacy: A study of the principles of pharmacy together with sufficient demonstrations to illustrate their application. Pharmaceutical arithmetic and pharmaceutical Latin are included. Lectures and recitations. Professor Stocking. 4 hours.

Pharmacy 2b. Official Pharmacy and Pharmaceutical Technique: A study of the processes involved in the manufacture of the Galenical preparations of the United States Pharmacopoeia and the National Formulary. Consideration is also given to the study of the drugs which are used in the manufacture of the various types of preparations. In this course the student makes about one hundred preparations including several of each pharmaceutical type as well as a number of non-official preparations. Recitations and laboratory. Deposit required. Professor Stocking. 4 hours.

Pharmacy 3a. Official Pharmacy and Pharmaceutical Technique: A continuation of Pharmacy 2. The more difficult preparations of the United States Pharmacopoeia and those in which chemical changes play an important part are studied in class and are manufactured by the student in the laboratory. The finished preparations and the ingredients of each are studied with reference to standard requirements including solubilities, tests for purity and identity, assay methods, and dosage. Each student manufactures about sixty preparations. Recitations and laboratory. Deposit required. Professor Stocking. 4 hours.

Pharmacy 6. Commercial Pharmacy: A course of practical lectures on drug store management including instruction concerning store location, equipment, and arrangement. Drug store merchandizing will also receive consideration. Professor Stocking. 2 hours.

Pharmacy 7b. Pharmaceutical Methods: A course in elementary pharmacy for medical students. The student makes preparations of each pharmaceutical type contained in the United States Pharmacopoeia, as pills, powders, waters, decoctions, solutions, tinctures, emulsions, and liniments. Practice in prescription dispens-

ing, and the making of stupes, poultices, plasters, and medicated baths. Recitations and laboratory work. Deposit required. Assistant Professor Browne. 2 hours.

Pharmacy 8b. Prescriptions: A practical course in the compounding and dispensing of prescriptions, with special reference to chemical, physical, and therapeutical incompatibilities. The instruction will embrace the theoretical and practical application of the latest and best methods of compounding including the dispensing of such prescriptions as hypodermic and compressed tablets, soluble elastic capsules, suppositories, emulsions, etc. Lectures, recitations, and laboratory. Prerequisite, Pharmacy 1 and 2 and Chemistry 6 and 4. Deposit required. Professor Stocking. 3 hours.

Pharmacy 9a. U. S. P. Methods: A study of the United States Pharmacopoeial methods for drug examination and drug assaying. Prerequisite, Pharmacy 1, 2, and 3 and Chemistry 6, 4, and 5. Lectures and laboratory work. Deposit required. The student may take this work more than once and receive credit each time provided the work is not duplicated. Professor Stocking. 4 hours.

Correspondence Courses in Pharmacy

Pharmacy Ia. Theoretical Pharmacy and Pharmaceutical Arithmetic: A study of the principles and practices of pharmacy together with a large number of problems in pharmaceutical arithmetic illustrating the principles and processes involved in the study of pharmacy. This course will consist of forty set of lectures, assigned readings, and quizzes, one set preferably lasting a week. The student is advised to buy Stevens' Pharmaceutical Arithmetic, Stevens' Pharmacy and Dispensing, or Remington's Practice of Pharmacy. 4 hours.

Materia Medica 4a. Pharmacognosy: A study of the official vegetable, animal, and more important non-official drugs with special reference to growth, identification, collection, preparation for the market, medicinal constituents, official preparations, and dose. This course will consist of forty sets of lectures, assigned readings, and quizzes. It will be necessary for the student to buy or rent a case of crude drugs for study in connection with this course. Such cases may be bought from the School of Pharmacy for $10.00, or rented for $2.00. Culbreth's Materia Medica and Pharmacology will need to be purchased for study. Suggested references, Kramer's Botany and Pharmacognosy, and the United States or National Dispensatories. 4 hours.

PHYSICS

Professor Haseman

Physics Ia. General Physics: Mechanics, sound, heat. Lect-

ures, recitations, laboratory, and assigned reading. A beginning course in college physics. Three class periods and one laboratory period. 4 hours.

Physics 2b. General Physics: Electricity, magnetism, light. Lectures, recitations, laboratory, and assigned reading. A beginning course in college physics. Three class periods and one laboratory period. 4 hours.

PHYSICAL TRAINING

Director Darling

Physical Training 1a. Marching, calisthenics, Indian clubs, and dumb-bells. Required of freshmen. Dr. Darling. 1 hour.

Physical Training 2b. A continuation of Course 1 with the addition of elementary work on heavy apparatus. Required of freshmen. Dr. Darling. 1 hour.

ROMANCE LANGUAGES

Professor Dora, Assistant Professor Curtis

French 1a. Beginning French: Essentials of grammar, practice in colloquial French, prose composition, reading of easy texts. Special attention will be given to the French verb and to word order. Fraser and Squair's French Grammar, Super's French Reader, Merimee's Colomba, and Halevy's L'Abbe Constantin. Given in two sections. Professor Dora. 4 hours.

French 2b. Intermediate French: Systematic study of grammar, French conversation, sight reading, parallel work. Fraser and Squair's Grammar, Cameron's Contes de Daudet, Merimee's Carmen, Scribe et Legouve's Bataille de Dames. Given in two sections. Professor Dora. 4 hours.

French 9a. Scientific French: This course is intended primarily for students of the sciences. The object is to lead the student to understand both the spoken and written language, and to enable him to read easily at sight scientific magazines and technically scientific works as well as to write with a fair degree of accuracy upon scientific themes. Bowen's First French Scientific Reader, Muller's Grandes Decouvertes Modernes, collateral readings. Professor Dora. 2 hours.

Spanish 1a. Elementary Spanish: Constant drill in pronunciation, the conjugations, and spoken Spanish. Practice in writing from dictation. Reading of short stories of moderate difficulty. Elementary composition. Assistant Professor Curtis. 4 hours.

Spanish 2b. Intermediate Spanish: Reading of modern prose, such as selections from the writings of Alarcon's Galdos, Valdes, Bazan, etc. Study of special grammatical constructions. Assistant Professor Curtis. 4 hours.

THE COLLEGE OF ENGINEERING

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

JAMES HUSTON FELGAR, A. B., M. E.
Dean of the College of Engineering, Professor of Mechanical Engineering.

†EDWIN DEBARR, Ph. D.
Professor of Chemistry, Director of the School of Chemical Engineering, Vice-President of the University.

HAROLD VEATCH BOZELL, B. S.
Director of the School of Electrical Engineering, Professor of Electrical Engineering.

CHARLES HENRY TAYLOR, M. S.
Director of the School of Mining Geology, Professor of Geology.

JAMES I. TUCKER, B. S., LL. B.
Director of the School of Civil Engineering, Professor of Civil Engineering.

HERBERT BANCROFT DWIGHT, B. S.
Professor of Mechanics and Instructor in Drawing.

*SAMUEL WATSON REAVES, A. M.
Professor of Mathematics.

GUY YANDALL WILLIAMS, Ph. D.
Associate Professor of Chemistry.

JEROME DOWD, M. A.
Professor of Sociology and Economics.

THEODORE HAMPTON BREWER, M. A.
Professor of English Literature.

*LOUIS ALVIN TURLEY, A. M.
Professor of Histology and Pathology

JOHN CHESTER DARLING, M. S., M. D.
Physical Director.

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†On leave of absence, 1913-1914.
*On leave of absence, 1914-1915.

WILLIAM PETER HASEMAN, PH. D.
Professor of Physics.

*ROY TEMPLE HOUSE, A. M.
Professor of the Germanic Languages and Literatures.

FREDERICK CHARLES KENT, B. S.
Associate Professor of Mathematics.

IRVING PERRINE, Ph. D.
Professor of Stratigraphic Geology and Paleontology.

GAYFREE ELLISON, B. S., M. D.
Professor of Bacteriology.

LOUISA BROOKE, B. A.
Assistant Professor of English, Adviser of Women.

WILLIAM AITKENHEAD, B. S., M. A.
Assistant Professor of Mechanical Engineering and Superintendent of Shop Work.

ARTHUR BARTO ADAMS, A. B.
Assistant Professor of Economics.

LESTER WILLIAM WALLACE MORROW, M. E.
Assistant Professor of Electrical Engineering.

EARLE SELLERS PORTER, M. A.
Instructor in Chemistry.

KENNETH POTTER MONROE, B. S.
Instructor in Chemistry.

FRANK LLOYD WEAVER, B. S.
Instructor in Civil Engineering.

WILLIAM ROBINSON MOLINARD, E. E.
Lecturer in Electrical Power Plant Engineering.

GEORGE WASHINGTON KNOX.
Lecturer in Electric Railway Engineering.

JAMES FRANKLIN NOBLE, A. B., LL. B.
Lecturer in Telephone and Telegraph Engineering.

DAVID ELLERY RENSHAW,
Fellow in Electrical Engineering.

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*On leave of absence, 1914-15.

THE COLLEGE OF ENGINEERING

The College of Engineering of the University of Oklahoma is a school for the higher education of young men in engineering. Its courses of instruction include chemical, civil, electrical, mechanical, and mining engineering and are based upon drawing, mathematics, physics, chemistry, and shop practice.

Some eighty years ago Tredgold defined engineering as "directing the sources of power in nature to the use and convenience of man." The man who would follow the profession so defined must be a man of science as well as a man of business. It is for this reason that a systematic mental training in technology, before entering engineering practice, is so desirable. The profession of the engineer is relatively a new one, yet the men of the future who will occupy the leading positions as engineers and managers will probably be those who have had a college training and have taken the best advantage of the opportunity.

The preparatory training that one receives in a technical school gives one knowledge of the fundamental principles of the sciences that underlie all engineering practice, and, by a judicious introduction of laboratory practice and laboratory methods into courses formerly consisting entirely of theoretical and text-book work, the student learns the "how" as well as the "why" in the application of the science. The man who knows "how" to do certain things but does not know "why" usually remains in a subordinate position.

In the modern technical school the student is first made acquainted with the theory of principles and then in the shops and laboratories he verifies this theory. The theoretical and text-book work is supplemented by experiments and investigations in the laboratories. The student thus cultivates accuracy and clearness of thought, the essential qualities of a good engineer.

The performance of laboratory experiments with all the apparatus assembled ready to hand and all the directions explicitly given is apt to become purely mechanical and of very questionable educational value. Such exercises, though usually called practical, have really little of practice in them. In actual practice the engineer is confronted with difficulties which he can overcome by a

knowledge of underlying principles and his ability to create and assemble his own apparatus. The laboratories and shops of the College of Engineering have been especially equipped for the purpose of illustrating the fundamental principles of engineering.

Schools

The College of Engineering includes the Schools of Chemical, Civil, Electrical, and Mechanical Engineering, and the School of Mining Geology. An outline of the courses required of the students in each of the schools will be found in the following pages. The total number of hours required for graduation is fixed at 140.

Thesis

Each candidate for a degree in engineering will be required to prepare a thesis on some special engineering subject, or elect such engineering work for the required number of units as may be determined upon in consultation with the director of the school. The thesis may be a test of a power plant, a design of a machine or a piece of apparatus, or the investigation of some process of manufacture. Whatever the subject selected, the thesis must show original work or investigation and be as complete an exposition on the subject as possible. The subject for the thesis must be selected at the beginning of the senior year, and the thesis presented for approval not later than the first Monday in May before graduation.

Original typewritten copy or drawings, which shall become the property of the university, must be presented, and any machine or piece of apparatus constructed for this thesis shall also belong to the university.

Degree

The degree of Bachelor of Science, qualified by the name of the school in which the work is done, is conferred upon graduates of the College of Engineering. For information concerning graduate degrees in engineering see general catalog under the Graduate School.

POSITIONS

No institution of learning can guarantee a position to every one of its graduates. The giving of employment is wholly beyond control of such an institution. The university authorities will use their best efforts to aid worthy graduates in securing suitable positions.

So far the university has been unable to meet the demand for technically trained men, and many are tempted by offer of lucrative positions to leave school before graduation. The College of Engineering of the University of Oklahoma, whose requirements for admission cover the work of a high school course, offers advanced and thorough

courses to those seeking a technical education. Those who have had the most thorough and advanced training can, of course, hope to secure the most desirable positions. Those who have made the necessary preparation are almost certain to secure positions of responsibility and trust.

ADMISSION

Applicants for admission to the College of Engineering should be at least sixteen years of age. Admission may be either by certificate or examination. Graduates of affiliated schools may present their certificates to the registrar on or before matriculation, as full credit will be given for all approved courses taken in such schools. Credentials from other high schools of recognized standing should be filed with the committee on admission at least two weeks before the opening of school. All applicants who do not hold such certificates or credentials should present themselvesfor examination.

NOTE: A more detailed statement of the university's plan of admission will be found in the general catalogue, under the head of "Admission".

Admission may be either to first year work without condition, to work as an unclassified student, or to advanced standing.

Admission to First Year

The requirements for admission are usually stated in units. A unit is the standard amount of work required in a secondary school subject, given five times a week, thirty-six weeks, with recitation periods not less than forty minutes in length. Fifteen units properly selected will admit to the first year's work without condition. The units required are given below:

Subject	Units
English	3
Algebra	1 1-2
Geometry	1 1-2
History	1
†One Foriegn Language	2
*Physics	1
Electives	5
Total	15

*Chemistry, one unit; botany, one unit; zoology, one unit; or botany and zoology, one-half unit each, may be substituted.

†German is preferred in Chemical Engineering.

Unclassified Students

Applicants for admission, not candidates for a degree, may be admitted to work suited to their needs with the approval of the dean. Such applicants must be twenty-one years of age, or must satisfy the requirements for admission to candidacy for a degree.

High school graduates presenting the equivalent of at least twelve admission units may be admitted to part of the first-year work, while making up deficiencies.

Advanced Standing

Advanced standing will be given for any work properly done in a school having equal entrance and other requirements. Application must be made for advanced standing at matriculation.

Students presenting entrance credit in manual training, drawing, or trigonometry, upon examination, may he excused from similar courses in the College of Engineering but must elect an equivalent number of hours.

EQUIPMENT

For a description of the laboratories, buildings, etc., and for other information concerning the College of Engineering, consult the proper section in the general catalogue.

OUTLINE OF THE WORK OF THE SEVERAL SCHOOLS

First Year Engineering—All Schools

First Semester Course	Hours	Second Semester Course	Hours
*Chem. 3 or Chem. 1	4	Chem. 7	4
English 1	4	English 2	4
Math. 5	4	Mech. Drawing 2	2
Math. 6	2	Math. 14	4
Mech. Drawing 1	2	Shop 2	2
Shop 1	1	Phys. Tr. 2	
Phys. Tr. 1			
Freshman Conference		Freshman Conference	
	17		16

Chemical Engineering

Second Year

First Semester		Second Semester	
Math. 117	4	Math. 118	4
Physics 51	5	Physics 52	5
Chem. 5	4	Chem. 102	4
†German 1 or 3	4	German 2 or 4	4
Chem. 103	2	Economics 9	2
	19		19

Third Year

First Semester		Second Semester	
Chem. 121	4	Chem. 122	4
Mech. 151	4	Chem. 123	2
Mech. 152	2	Mech. 153	4
M. E. 1	4	Mech. 154	2
M. E. 161	1	Geol. 1	4
German 9	2	German 10	2
	17		18

Fourth Year

First Semester		Second Semester	
Chem. 104	4	Chem. 106	4
Chem. 51	4	Chem. 152	4
Bacteriology 3	4	E. E. 56	2
E. E. 55	2	Thesis	3
Chem. 52	2	Engineering 51	3
English 9	2		
	18		16

*Students who have not had high school chemistry take Chemistry 1.

†Students who have not had two years of high school German take German 1 and 2.

Civil Engineering

Second Year

First Semester Course	Hours	Second Semester Course	Hours
Math. 117	4	Math. 118	4
Physics 51	5	Physics 52	5
Mech. Drawing 3	3	C. E. 2	4
C. E. 1	4	C. E. 3	4
		Economics 9	2
	16		19

Third Year

First Semester		Second Semester	
Mech. 151	4	Mech. 153	4
Geol. 1	4	Mech. 154	2
C. E. 151	4	C. E. 152	4
Mech. 152	2	C. E. 53	3
M. E. 1	4	C. E. 154	2
		Mech. 155	3
	18		18

Fourth Year

First Semester		Second Semester	
C. E. 155	3	C. E. 157	2
C. E. 156	2	C. E. 158	4
C. E. 59	3	E. E. 53	3
E. E. 51	3	E. E. 54	1
E. E. 52	1	C. E. 160	3
Bacteriology 3	4	Engineering 51	3
English 9	2	C. E. 161	2
	18		18

Electrical Engineering

Second Year

First Semester Course	Hours	Second Semester Course	Hours
Math. 117	4	Math. 118	4
Physics 51	5	Physics 52	5
Mech. Draw. 3	3	M. E. 4	4
Mech. Draw. 4	2	Mech. Draw. 5	2
M. E. 1	4	Shop 4	1
Shop 3	1	Economics 9	2
		M. E. 60	1
	19		19

Third Year

First Semester		Second Semester	
Mech. 151	4	Mech. 153	4
Mech. 152	2	Mech. 154	2
Physics 105	1	Mech. 155	3
Physics 104	4	E. E. 163	1
E. E. 161	4	E. E. 164	4
E. E. 162	1	M. E. 59	2
Chem. 51	4	M. E. 162	1
		E. E. 165	1
	20		18

Fourth Year

First Semester		Second Semester	
C. E. 1	4	Engineering 51	3
English 9	2	E. E. 175	2
E. E. 171	4	E. E. 176	2
E. E. 172	3	E. E. 177	2
E. E. 173	2	E. E. 178	2
E. E. 74	2	E. E. 179	2
		E. E. 80	
		E. E. 81	
		E. E. 182	1
	17		14

Mechanical Engineering

Second Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Math. 117	4	Math. 118	4
Mech. Draw. 3	3	M. E. 2	4
Physics 51	5	Physics 52	5
M. E. 1	4	M. E. 4	4
Mech. Draw. 4	2	Mech. Draw. 5	2
Shop 3	1	Shop 4	1
	19		20

Third Year

First Semester		Second Semester	
Mech. 151	4	Mech. 153	4
Mech. 152	2	Mech. 155	3
M. E. 158	4	M. E. 154	3
M. E. 153	2	M. E. 52	2
M. E. 151	2	Mech. 154	2
Mech. Draw. 51	2	M. E. 162	1
M. E. 3	1	Economics 9	2
M. E. 161	1		
	18		17

Fourth Year

First Semester		Second Semester	
M. E. 163	3	M. E. 164	3
M. E. 155	2	M. E. 165	2
English 9	2	E. E. 53	3
C. E. 1	4	E. E. 54	1
M. E. 56	2	Engineering 51	3
E. E. 51	3	M. E. 166	2
E. E. 52	1	M. E. 57	2
		M. E. 67 Thesis	
	17		16

Mining Geology

Second Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Physics 51	5	Physics 52	5
Math. 117	4	Chem. 2	4
C. E. 1	4	Chem. 5	4
Geol. 1	4	Geol. 2	4
		Economics 9	2
	17		19

Third Year

First Semester		Second Semester	
M. E. 1	4	C. E. 2	4
Geol. 102	3	Mech. 153	4
Chem. 101	4	Geol. 103	3
Mining Geol. 51	3	Mining Geol. 52	4
Mech. 151	4	Mech. 154	2
Mech. 152	2		
	20		17

Fourth Year

First Semester		Second Semester	
E. E. 51	3	E. E. 53	3
E. E. 52	1	E. E. 54	1
Mining Geol. 53	2	Geol. 104	4
Mining Geol. 54	3	Engineering 51	3
Mining Geol. 55	4	Mech. 155	3
Mining Geol. 56	2	Mining Geol. 57	3
English 9	2	Thesis	
	17		17

DESCRIPTION OF COURSES

BACTERIOLOGY

Professor Ellison

Bacteriology 3a. Sanitary Bacteriology: A study of the fundamental bacterial activity; methods of isolation from water, soil, and sewage, the testing of disinfectants; a study of septic tanks and the problems of public sanitation. This course is designed especially for students in engineering. Laboratory, conferences, and lectures. Deposit required. 4 hours.

CHEMICAL ENGINEERING

Professor DeBarr, Associate Professor Williams, Mr. Porter, Mr. Monroe

Chemistry I. General Chemistry; Laboratory and lectures with recitations. Students are required to use the chemicals and chemical apparatus of the laboratory in this course. Deposit required. 4 hours.

Section 1, first semester. Mr. Monroe.

Section 2, second semester. Mr. Porter.

Section 3, first semester. Mr. Monroe.

Chemistry 2b. General Chemistry: Laboratory and lectures. Prerequisite, Chemistry 1. Deposit required. Mr. Monroe. 4 hours.

Chemistry 3a. General Chemistry: Laboratory and lectures with recitations. Prerequisite, one entrance credit in chemistry. Three lectures and one laboratory period of three hours. Deposit required. Associate Professor Williams. 4 hours.

Chemistry 5. Quantitative Analysis: Volumetric and gravimetric estimations. Lectures and laboratory. Prequisite, Chemistry 4. Deposit required. Mr. Monroe. 4 hours.

Chemistry 7b. Analytical Chemistry: Analysis of unknowns. Laboratory and lectures. Open only to students in engineering. Prerequisite, Chemistry 1 or 3. Deposit required. Prescott and Johnson's Qualitative Chemical Analysis. Associate Professor Williams. 4 hours.

Chemistry 5la. Electro-Chemistry: This course takes up the elements of physical chemistry. Theory of electrolytic dissociation, migration of ions, conductivity of solutions, electromotive force, electrolysis, and some of the applications of electro-chemistry. Prerequi-

site, Chemistry 4, Physics 2, and Mathematics 17. Lectures and recitations and one laboratory period of 3 hours. Deposit required. Associate Professor Williams. 4 hours.

Chemistry 52a. Chemical Technology: Lectures and recitations upon the processes employed in industrial chemistry. Prerequisite, Chemistry 4, 5, 121. Thorpe's Industrial Chemistry. Associate Professor Williams. 2 hours.

For Undergraduates and Graduates

Chemistry 101a. Advanced Qualitative Chemistry: Continuation of Course 4. Deposit required. Mr. Monroe. 4 hours.

Chemistry 102b. Advanced Quantitative Analysis: Continuation of Chemistry 5. Associate Professor Williams. 4 hours.

Chemistry 103a. Inorganic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4. Deposit required. Mr. Porter. 2 hours.

Chemistry 104a. Assaying: This course deals with the estimation of iron, lead, copper, silver, zinc, etc., by the wet way, and of gold and silver by the use of fluxes and other reagents. Prerequisite, Chemistry 5. Deposit required. Mr. Porter. 4 hours.

Chemistry 106b. Iron, Steel, and Coal Analysis: A study of iron, coal, and steel used in commerce and for domestic purposes. Prerequisite, Chemistry 5. Deposit required. Mr. Porter. 4 hours.

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisite, Chemistry 1 and 4. Perkin and Kipping's Organic Chemistry. Four periods. Professor DeBarr. 4 hours.

Chemistry 122b. Organic Analysis: Analysis of alkaloids and organic acids. Examination of fat and oils. Prerequisite, Chemistry 121. Deposit required. Text, Prescott's Organic Analysis. Professor DeBarr. 4 hours.

Chemistry 123b. Organic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4, 121, and German 2. Deposit required. Mr. Porter. 2 hours.

Chemistry 152b. Elementary Physico-Chemical Measurements: A laboratory course that must be taken with or after Chemistry 51. Molecular weight determinations by vapor density, freezing and boiling point methods, study of solutions, solubility, conductivity, transport numbers, etc. Deposit required. Associate Professor Williams. 4 hours.

CIVIL ENGINEERING

Professor Tucker and Mr. Weaver

Primarily for Undergraduates

Civil Engineering 1a. Surveying: Theory and use of the ordinary instruments of surveying such as the tape, compass, transit, and level. The common operations of surveying and of calculating and plotting surveys are taught. Prerequisite, Mathematics 6. Professor Tucker. 4 hours.

Civil Engineering 2b. Advanced Surveying: Some attention is devoted to triangulation, topography and hydrography, astronomy, and geodesy. The theory and use of the plane table, sextant, barometer, slide rule, and instruments of lesser importance are studied. The class will make a topographic survey of a piece of land, take topographic notes over it and produce a finished map of the section. Prerequisite, Civil Engineering 1. Professor Tucker. 4 hours.

Civil Engineering 3b. Roads and Pavements: The principles involved in the location and construction of highways, streets, and roads, are studied, and numerous numerical problems solved illustrating them. Professor Tucker. 4 hours.

Civil Engineering 53a. Sewerage: Design and construction of sewerage systems both separate and combined, determination of size and capacity and modern methods of sewage disposal. Prerequisite, Civil Engineering 2. Mr. Weaver. 3 hours.

Civil Engineering 59a. Water Supplies: A study of the quantity, quality, and source of portable water supplies with the necessary structures for collecting the same. A brief study of the operation of distribution systems, with considerable attention to modern methods of purifying and improving water for domestic and commercial uses. Mr. Weaver. 3 hours.

For Undergraduates and Graduates

Civil Engineering 151a. Railroad Surveying: A study of the best practice in railroad field work, including the mathematics of simple and compound curves and of earthwork computation. Some field practice in curves; the projection of a line on a map and estimates together with approximate design of structures. Prerequisite, Civil Engineering 2. Professor Tucker. Each. 4 hours.

Civil Engineering 152b. Railroad Surveying: A continuation of Civil Engineering 151. Professor Tucker. 4 hours.

Civil Engineering 154b. Foundations: Foundations on land and in water, cribwork, cofferdams, caissons, piles, and pile driving; stone, brick, concrete, pneumatic processes, etc. Mr. Weaver. 2 hours.

Civil Engineering 155a. Structural Engineering: The calcu-

lation of stresses in steel roofs, bridges, and buildings. Studies are made of systems of loading and the solution of trusses by graphics. The principles taught in Mechanics 153 are brought into use in the design of members. Prerequisite, Mechanics 153. Mr. Weaver. 3 hours.

Civil Engineering 156a. Railroad Engineering: The economic theory of railroad location is touched upon, but chief emphasis is laid upon economics of track construction and maintenance, operating matters, and the fundamentals of terminal design as affecting the economic welfare and progress of the nation. Prerequisite, Civil Engineering 151 and 152. Professor Tucker and Mr. Weaver. Each 2 hours.

Civil Engineering 157b. Railroad Engineering; A continuation of Civil Engineering 156. Professor Tucker. 2 hours.

Civil Engineering 158b. Masonry Structures: Including building stone and quarrying and the design and construction of arches, dams, retaining walls, piers, and buildings of stone, brick, and concrete masonry, with special attention to reinforced concrete. Prerequisite, Mechanics 153. Mr. Weaver. 4 hours.

Civil Engineering 160b. Structural Design: The actual detailing of simple metal structures. Prerequisite, Civil Engineering 155. Mr. Weaver. 3 hours

Civil Engineering 161. Fire Protection: A study of the principal classes of fire hazards in building construction and of modern methods for obviating or controlling them. The leading types of slow burning or fire-resisting construction are considered, together with plans and layouts providing maximum safety for persons and property. 2 hours.

Primarily for Graduates

Civil Engineering 200. Advanced Structural Design: Analysis and design of less simple structures of steel. 3 hours.

Civil Engineering 201. Advanced Structural Design: Continuation of Civil Engineering 200. 3 hours.

Civil Engineering 202. Re-inforced Concrete: Design and experimental work. 4 hours.

Civil Engineering 203. Railroad: A study of railroad statistics, management, and operation. 4 hours.

Civil Engineering 204. Water Purification and Sewage Disposal: The chemical and bacterial analysis of water and sewage, and the design of plants for commercially accomplishing the same. 3 hours.

Civil Engineering 205. Water Purification and Sewage Disposal: Continuation of Civil Engineering 204. 3 hours.

Civil Engineering 206. Water Power or Irrigation Engineering: Street flow data. Hydraulic turbines. Design and construction of dams and controlling works. 3 hours.

Civil Engineering 207. Water Power or Irrigation Engineering: Continuation of Civil Engineering 206. 3 hours.

Civil Engineering 208. Highway Engineering: Research and experimentation in the use of asphaltic and bituminous materials for street purposes and allied problems. 4 hours.

ECONOMICS

Professor Dowd, Assistant Professor Adams

Economics 9b. Business Administration: A study of legal forms, credit instruments, funding operations, accounting, and executive duties. Assistant Professor Adams. 2 hours.

ELECTRICAL ENGINEERING

Professor Bozell, Assistant Professor Morrow,
Mr. Molinard, Mr. Noble, Mr. Knox

Primarily for Undergraduates

Electrical Engineering 51a. Direct Current Machinery: For civil, geological, and mechanical engineering students. Electricity; magnetism; theory of direct current machinery. Lectures and recitations. Prerequisite, Physics 2 or 52. Assistant Professor Morrow. 3 hours.

Electrical Engineering 52a. Electrical Engineering Laboratory: For civil, geological, and mechanical engineering students. Experimental work with direct current machinery and the instruments used therewith. Prerequisite, enrollment in Electrical Engineering 51. Assistant Professor Morrow. 1 hour.

Electrical Engineering 53b. Alternating Current Machinery: For civil, geological, and mechanical engineering students. Theory of alternating currents, alternating current machinery. Lectures and recitations. Prerequisite, Electrical Engineering 51. Assistant Professor Morrow. 3 hours.

Electrical Engineering 54b. Electrical Engineering Laboratory: For civil, geological, and mechanical engineering students. Experimental work with alternating current circuits, alternating current machinery, and the instruments used therewith. Prerequisite, enrollment in Electrical Engineering 53. Assistant Professor Morrow. 1 hour.

Electrical Engineering 55a. Dynamo-Electric Machinery: For chemical engineering students. Principles of electrical measur-

ing instruments; and of direct and alternating current machinery. Small industrial installations. Lectures and recitations. Prerequisite, Physics 52. Assistant Professor Morrow. 2 hours.

Electrical Engineering 56b. Electrical Engineering Laboratory: For chemical engineering students. Experimental work with direct and alternating current machinery. Prerequisite, enrollment in Electrical Engineering 55. Assistant Professor Morrow. 2 hours.

Electrical Engineering 74a. Electrical Machine Design: Theory and principles underlying the design of electrical machinery in all details—electrical and mechanical. At least one design will be completed, including all drawings, by each student. Lectures, recitations and design periods. Prerequisite, Mechanics 153, and enrollment in Electrical Engineering 171. Professor Bozell. 2 hours.

Electrical Engineering 80b. Professional Thesis: Preliminary reading during the first semester. For the second semester, the student is expected to devote a large part of his free time to the personal investigation, experimental or other, of his subject, and to write an acceptable thesis upon his results and conclusions. Eight hours a week, by appointment. Professor Bozell or other instructors, depending upon the nature of the subject chosen.

Electrical Engineering 81b. Inspection Trip: A more or less extended trip—the nature and points visited varying from year to year—for the purpose of inspecting installations, operating and under construction, and manufacturing plants of special interest to electrical engineers. The students will be accompanied by Professor Bozell.

For Undergraduates and Graduates

Electrical Engineering 161a. Direct Current Machinery: Advanced work in electricity and magnetism. The theory of direct current machinery, circuits, and instruments. Lectures and recitations. Prerequisite, enrollment in Physics 104. Assistant Professor Morrow. 4 hours.

Electrical Engineering 162a. Electrical Engineering Laboratory: Experimental work with direct current machinery and measuring instruments. Prerequisite, enrollment in Electrical Engineering 61. Assistant Professor Morrow. 1 hour.

Electrical Engineering 163b. Electrical Engineering Laboratory: Continuation of Electrical Engineering 162. Commercial tests and operation. Prerequisite, Electrical Engineering 162. Assistant Professor Morrow. 1 hour.

Electrical Engineering 164b. Theory of Alternating Currents: A study, mainly mathematical, of alternating currents, alternating current circuits and phenomena. The fundamental theory of alternating

current machinery. Prerequisite, Physics 104, and Mathematics 117. Professor Bozell. 4 hours.

Electrical Engineering 165b. Electrical Laboratory: Advanced electrical measurements; experimental work with measuring instruments, apparatus, circuits, and conditions pertaining specially to alternating currents. Prerequisite, Physics 105, and enrollment in Electrical Engineering 164. Assistant Professor Morrow. 1 hour.

Electrical Engineering 171a. Alternating Current Machinery: The theory and study of alternating current machinery. Lectures and recitations. Prerequisite, Electrical Engineering 165. Professor Bozell. 4 hours.

Electrical Engineering 172a. Electrical Engineering Laboratory: Experimental work with alternating current machinery; methods of testing and operation. Work in the operation of combinations of direct and alternating current machinery. Prerequisite, enrollment in Electrical Engineering 171. Assistant Professor Morrow. 3 hours.

Electrical Engineering 173a. Telegraph and Telephone Engineering: Principles underlying telephone apparatus; operation of apparatus and systems. Experimental work with apparatus and equipment. Theory of signaling in line and wireless telegraphy. Lectures, recitations, and laboratory. Prerequisite, Electrical Engineering 165. Professor Bozell and Mr. Noble. 2 hours.

Electrical Engineering 175b. Advanced Electrical Machinery: A continuation of courses 161 and 171. Advanced study of types of alternating and direct current machinery. Selection of machinery for specific purposes. Prerequisite Electrical Engineering 172. Assistant Professor Morrow. 2 hours.

Electrical Engineering 176b. Electrical Transmission and Distribution of Power: The principles involved and the methods used in the transmission and distribution of electric power. Lectures, recitations, and assigned readings; laboratory as required. Prerequisite, Electrical Engineering 172. Assistant Professor Morrow. 2 hours.

Electrical Engineering 177b. Electric Railway Engineering: The engineering principles and practice in electric railway work. The preliminary calculations, speed-time curves and schedules, power house and sub-stations, rolling stock, transmission, equipment. Lectures, recitations, problems, and assigned readings. Prerequisite, Electrical Engineering 172. Professor Bozell, and Mr. Knox. 2 hours.

Electrical Engineering 178b. Illuminating Engineering: A study of the different illuminants, and methods of illumination. Color effects, efficiency, photometry. Machinery peculiar to illumination. Lectures, recitations, and assigned readings. Laboratory as required.

Prerequisite, Mathematics 6 and Physics 2 or 52. Professor Bozell. 2 hours.

Electrical Engineering 179b. Electrical Power Plants: The economic design and operation of electric power plants. Selection and installation of machinery. Plans and estimates. Accounting, management. Lectures, recitations, and periods for design work. Prerequisite, Electrical Engineering 172 and Mechanical Engineering 60. Professor Bozell and Mr. Molinard. 2 hours.

Electrical Engineering 182. Current Electrical Engineering: Systematic reading with weekly reports and discussions of current periodicals and electrical engineering. Discussion of theory and practice therein contained. One recitation per week. Professor Bozell. 1 hour.

Primarily For Graduates

Electrical Engineering 201. Advanced Alternating Currents: Study of Steinmetz' writings on alternating currents with a comparison with other authors' theories and methods. 3 hours.

Electrical Engineering 202. Transient Phenomena: Study of Steinmetz' writings on transients with a comparison with other authors' theories and methods. 3 hours.

Electrical Engineering 203. Current Electrical Engineering: This includes systematic reading of current American, English, French, German, and other periodicals in electrical engineering with weekly reports and a comparison of theory and practice found therein with former practices and with each other. A general criticism of all of the important articles. Credit will be given each semester taken, but not to exceed 9 hours credit will be given anyone person. 3 hours.

Electrical Engineering 204. Advanced Electrical Railway Engineering: Investigation of capitalization, operation management, and engineering. This will be supplemented with tests on equipment and selection of equipment, rolling stock, etc. 3 hours.

Electrical Engineering 205. Advanced Electric Railway Engineering: Continuation of Electrical Engineering 204. 3 hours.

Electrical Engineering 206. Advanced Steam Power Plant Engineering: This course includes methods of rate making, management, cost accounting, equipment, operation, and public relations. 3 hours.

Electrical Engineering 207. Advanced Hydroelectric Power Plant Engineering: The course includes hydraulic development and methods of rate making, management, cost accounting equipment, operation, and public relations. 3 hours.

Electrical Engineering 208. Advanced Electrical Trans-

mission: Problems involved in modern high voltage, high power systems. Design, construction and operation. 3 hours.

Electrical Engineering 209. Electrical Engineering Research: The subject in each case will be selected by the student and approved by the head of the department. Work will include a detailed study with such conferences, readings, laboratory work, and lectures as the work selected may demand. Credit may be received in each new subject taken up, but not to exceed 5 hours will be given in any one semester.

ENGINEERING

Professor Bozell, Professor Tucker

Engineering 51b. Contracts and Engineering: A study of the principles of business law with special reference to engineering and engineering contracts; practice in analysis and improvement of existing types, and in solving typical problems in specification writing. Professor Tucker. 3 hours.

For Graduates

Engineering 201. Public Utility Control: The history and present status of public utility commissions; methods of appraisal; study of current decisions. Professor Bozell. 3 hours.

ENGLISH

Professor Brewer, Assistant Professor Brooke

English 1a. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence. Daily and fortnightly themes. Required of all candidates for the bachelor's degree. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it.

The course is given in eight sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, Mr. Herbert and Miss Berrigan. 4 hours.

English 2b. First Principles of English Composition: Long and short themes at stated intervals. A study of selected examples of nineteenth century prose. Lectures on the use of words. English 2 is a continuation of and presupposes English 1. Required of all candidates for the bachelor's degree.

The course is given in eight sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Mr. Morgan, Mr. Herbert and Miss Berrigan. 4 hours.

English 9a. Advanced Composition: This course is intended for engineers and students in science of junior and senior rank. Par-

ticular attention will be given to the gathering and preparation of material, and to the writing and criticism of scientific papers. Assistant Professor Brooke. 2 hours.

FRESHMAN CONFERENCE

Freshman Conference. A professor from each one of the schools in the College of Engineering will present to the freshmen during the year the scope of work included in his school, the field for which the work prepares him, the kind of work he will have to do in the field when he graduates, and the opportunities of that line of engineering work as a profession. The conference is required of all freshman engineers; it meets once a month, according to the schedule. The meetings will be supplemented by assigned readings and technical reports.

GEOLOGY

Professor Taylor, Professor Perrine

Primarily for Undergraduates

Geology 1. Elementary Geology: A general introductory course. A study of the origin of the earth, its past and probable future; the chief rocks and minerals and the manner of their formation, destructive and reconstructive processes; crustal movements and mountain structures; vulcanism and metamorphism; a chronological study of the history of the earth, and of the development and evolution of life forms. A field excursion to the Arbuckle Mountains is included as part of the required work. Professor Perrine. 4 hours.

Geology 2b. Physiography: A study of the development of land forms and of the agents which produce them. Special consideration is given to the life history and work of streams, to glaciers, to the ocean, volcanoes, etc. The course includes a brief consideration of meteorology. A field trip to the Arbuckle Mountains is included as a part of the required work. Professor Taylor. 4 hours.

For Undergraduates and Graduates

Geology 102a. Crystallography and Mineralogy: A study of the laws of crystallization, and the classification of crystals. The physical properties, chemical composition, and mode of occurrence of minerals. Prerequisite, Chemistry 1. 3 hours.

Geology 103b. Mineralogy: A continuation of Geology 102. Descriptive mineralogy and blowpipe analysis. Deposit required. Professor Taylor. 3 hours.

Geology 104b. Economic Geology: A study of ore deposits with respect to their origin, mode of occurrence, and value. Also a study of oil, gas, coal, etc., with particular reference to their occurrence

and development in Oklahoma. Prerequisite, Geology 1, 3, or 102, and general chemistry. Professor Taylor. 4 hours.

GERMAN

Professor House

German 1a. Beginning German: Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Prerequisite, two years of foreign language. Spannoofd's Elementarbuch and Bacon's Im Vaterland. Professor House. 4 hours.

German 2b. Beginning German: Bacon's Im Vaterland continued. Continuation of Spanhoofd's Elementarbuch. Prerequisite, German 1. Professor House. 4 hours.

German 3a. German Prose and Poetry: Two standard works such as Schiller's Wilhelm Tell and Freytag's Die Journalisten are read in class. One hour a week is devoted to the study of prose composition, and advanced syntax and drill in conversation accompanies each lesson. Osthaus and Biermann's Prose Composition and Voss and House's "Wie der Deutsche spricht." Prerequisite, German 1 and 2. Professor House and Associate Professor Voss. 4 hours.

German 4b. German Prose and Poetry: Reading and critical study of representative German ballads and lyrics. Dillard's Aus dem Deutschen Dichterwald and a prose text such as Heine's Harzreise. Study of Osthaus and Biermann's Prose Composition and Voss and House's "Wieder Deutsche spricht" continued. Reports upon assigned readings. German is the language of the class room. Prerequisite, German 1, 2, 3. Professor House and Associate Professor Voss. 4 hours.

German 9a. Scientific German: The aim of this course is to afford students of the sciences an acquaintance with technical scientific nomenclature and style. Reading of German scientific texts and articles in current technical periodicals will be required of students. Prerequisite, German 1 and 2. Wait's German Scientific Reader. Professor House. 2 hours.

German 10b. Scientific German: A continuation of German 9. Reading of German scientific texts (Goeschen Sammlung) and articles in current technical periodicals. Brief lectures in German on various topics selected from the different sciences will be required from time to time to be given in the class by the student, the subject matter to be subsequently discussed in class. Professor House. 2 hours.

MATHEMATICS

Professor Reaves, Associate Professor Kent

Primarily for Undergraduates

Mathematics 5. College Algebra: Embracing the subjects of imaginaries, variables and limits, permutations and combinations, binomial theorem, series, undetermined coefficients, logarithms, determinants, and theory of equations. This course presupposes a minimum of one and one-half years in algebra. Four sections first semester and one section second semester. Professor Reaves, Associate Professor Kent. 4 hours.

Mathematics 6a. Trigonometry: This is a brief course intended primarily for engineering students, but open also to others. Two sections. Associate Professor Kent. 2 hours.

Mathematics 14. Analytic Geometry: Equations and their loci; transformation of coordinates; the straight line, circle, and other conic sections; general equation of the second degree; introduction to solid geometry. Prerequisite, trigonometry. One section, first semester, and two sections, second semester. Professor Reaves Associate Professor Kent. 4 hours.

For Undergraduates and Graduates

Mathematics 117. Calculus: Course in differential and integral calculus. Prerequisite, Mathematics 14. One section, first semester. Associate Professor Kent. One section, second semester. Professor Reaves. 4 hours.

Mathematics 118b. Calculus: A continuation of Mathematics 117 with numerous applications to practical problems. Associate Professor Kent. 4 hours.

MECHANICS

Professor Dwight, Professor Felgar

For Graduates and Undergraduates

Mechanics 151a. Mechanics: A mathematical study of the laws of statics and kinematics; friction; the fundamental dynamical principles; kinetics of particles and of rigid bodies; some discussion of the dynamics of rotation and the gyroscope. Prerequisite, Mathematics 117 and Physics 1 or 51. Professor Dwight. 4 hours.

Mechanics 152a. Applied Mechanics: The application of mechanics to the solution of engineering problems and especially the use of graphics as a means of attack. Prerequisite, enrollment in Mechanics 151. Professor Dwight. 2 hours.

Mechanics 153b. Mechanics of Materials: A study of the strength of materials, stresses and strains in beams, columns, and

shafts; elasticity, flexure, safe loading, designing. Prerequisite, Mechanics 151. Professor Dwight. 4 hours.

Mechanics 154b. Resistance of Materials: Experiments and investigations in the materials laboratory to verify the experimental laws; problems in engineering practice; the quality and requirements for structural materials. Prerequisite, enrollment in Mechanics 153. Professor Felgar and Professor Dwight. 2 hours.

Mechanics 155b. Theoretical Hydraulics: Principles of hydrostatic and hydro-dynamic pressure; laws that govern the flow of water through orifices, weirs, pipes, and canals; determination of experimental coefficients and their use. Recitations and laboratory. Prerequisite, Physics 1 or 51 and Mathematics 117. Professor Dwight. 3 hours.

MECHANICAL DRAWING

Professor Dwight, Professor Felgar

Primarily for Undergraduates

Mechanical Drawing 1a. Technical Drawing: Free-hand lettering, standard forms for titles and choice of alphabets. Elementary mechanical drawing through the last ten weeks. Graphic solution of conic sections and other plane curves. Professor Dwight. 2 hours.

Mechanical Drawing 2b. Simple isometric and orthographic projections, shade lines and shadows, working drawings, tinting, and conventional representation. Continued practice in lettering. Prerequisite, Mechanical Drawing 1. Professor Dwight. 2 hours.

Mechanical Drawing 3a. Descriptive Geometry: Orthographic projections in the solution of problems of the right line and plane; of curved and warped surfaces, intersections, and developments. Principles of shades, shadows, and linear perspective; isometric projections. Recitations and drawing. Prerequisite, Mechanical Drawing 2. Professor Felgar. 3 hours.

Mechanical Drawing 4a. Machine Drawing: Drawing of machine details from sketches and notes; sketching of machine parts and preparation of working drawings; tracing and blue printing; practical drafting-room methods. Preparation of a complete set of drawings for some simple machine. Prerequisite, Mechanical Drawing 2. Professor Dwight. 2 hours.

Mechanical Drawing 5b. Machine Design: Theory and design of gears, screws, cams, belts, and simple machines. Recitations and drawing. Prerequisite, Mechanical Drawing 2. Professor Dwight. 2 hours.

Mechanical Drawing 51a. Kinematic Drawing: Velocity dia-

grams, valve and indicator diagrams, and preliminary work for valve and steam engine design. Professor Dwight. 2 hours.

MECHANICAL ENGINEERING

Professor Felgar, Assistant Professor Aitkenhead

Primarily for Undergraduates

Mechanical Engineering 1a. Elements of the Steam Engine and Boiler: A brief study of the principles of steam engines, boilers, and steam turbines. Assistant Professor Aitkenhead. 4 hours.

Mechanical Engineering 2b. Valve Gears and Indicators: A study of the valve motions of the steam engine and of indicator cards. Assistant Professor Atikenhead. 4 hours.

Mechanical Engineering 3a. Mechanical Laboratory: Study and calibration of instruments and testing of simple machines. Professor Felgar. 1 hour.

Mechanical Engineering 4b. Thermodynamics: Study of the relations of heat phenomena. Theory of gases and vapors. Theory of heat engines and discussion of heat efficiencies. Prerequisite, Physics 51, 52, and Mathematics 117. Professor Felgar. 4 hours.

Mechanical Engineering 52b. Steam Engine Design: Complete design of a steam engine with detailed working drawing of all its parts. Professor Felgar. 2 hours.

Mechanical Engineering 56a. Power Plant Design: Selection of the plan and elevation of power plant and machinery, of piping systems. and of coal and ash handling systems. Professor Felgar. 2 hours.

Mechanical Engineering 57b. Power Plant Design: (Continued:) Professor Felgar. 2 hours.

Mechanical Engineering 59b. Advanced Steam Engineering: Study of heat losses in the steam engine with methods of reducing the same; corresponding superheating, jacketing, design of reciprocating steam engine; steam jet, design of a steam turbine. This course is designed to meet the demand of the electrical engineer. Professor Felgar. 2 hours.

Mechanical Engineering 60b. Mechanical Engineering Laboratory: For electrical engineers. Flue gas analysis, gas calorimetry, study of lubricating oils, efficiency test of steam and gas engines and a complete engine and boiler test. Porfessor Felgar. 1 hour.

Mechanical Engineering 67b. Thesis: A complete investigation of some subject relative to mechanical engineering, or the design of some special apparatus or machine.

For Undergraduates and Graduates

Mechanical Engineering 151a. Machine Design: Proportioning and designing of machine parts for durability and strength. Prerequisite, Mechanics 151. Professor Felgar. 2 hours.

Mechanical Engineering 153a. Steam Power Plant Engineering: A study of fuels, types of boilers, and accessories in detail. Prerequisite, Mechanical Engineering 1. Professor Felgar. 2 hours.

Mechanical Engineering 154b. Steam Power Plant Engineering: A continuation of Mechanical Engineering 153. A study of the steam engine, steam turbine, steam pumps and accessories, with reference to design, cost, and installation of a power plant. Prerequisite, Mechanical Engineering 153. Professor Felgar. 3 hours.

Mechanical Engineering 155b. Steam Power Plant Engineering: A continuation of Mechanical Engineering 154 with special reference to power plant accessories, cost of power, tests and types of specifications. Prerequisite, Mechanical Engineering 154. Professor Felgar. 2 hours.

Mechanical Engineering 158a. Heat Engines: Thermodynamics applied to engines, both vapor and internal combustion. Professor Felgar. 4 hours.

Mechanical Engineering 161a. Mechanical Engineering Laboratory: Fuel and flue gas analysis, calorimetry, efficiency tests of steam and gas engines. Professor Felgar. 1 hour.

Mechanical Engineering 162b. Mechanical Engineering Laboratory: A study of lubricating oils and lubrication, efficiency tests of steam and gas engines with special reference to thermal efficiency including a complete boiler and engine test. Professor Felgar. 1 hour.

Mechanical Engineering 163a. Refrigeration: This course includes the study of prime movers, for refrigerating machinery, refrigeration, and refrigerating machinery, using texts and catalogues. Professor Felgar. 3 hours.

Mechanical Engineering 164b. Heating and Ventilation: Nature and properties of heat, principles of ventilation, heat given off by radiating surfaces, steam heating boilers, various systems of piping, mechanical systems of heating and ventilation. Professor Felgar. 3 hours.

Mechanical Engineering 165b. The Gas Engine: Power, efficiency and economy of gas engine. The use of gasoline, petroleum, distillate, and producer gas. The producer gas plant. Prerequisite, Mechanical Engineering 164. Assistant Professor Aitkenhead. 2 hours.

Mechanical Engineering 166b. Turbines: A study of the theory and design of the different types of steam turbines. 2 hours.

Primarily For Graduates

Mechanical Engineering 200. Advanced Mechanical Engineering Research: Lectures and laboratory. Credit may be received in each new subject taken up, but not to exceed 5 hours will be given in any one semester.

Mechanical Engineering 201. Heating Ventilation: Building a design of a vacuum system heating plant, with direct and indirect radiation. Selection of equipment, estimates of cost. Lectures and design periods. 4 hours.

Mechanical Engineering 202. Refrigeration; A complete design of a compression ammonia refrigeration system. Lectures and design periods. 4 hours.

MINING GEOLOGY

Professor Taylor

Primarily for Undergraduates

Mining Geology 51a. Elements of Mining Engineering: A course intended to introduce the student to the chief features of the profession of mining engineering. 3 hours.

Mining Geology 52b. Mining Engineering: This course deals with the mechanism and tools of mining, methods of prospecting and the opening up of deposits, including the sinking of shafts and slopes, the driving of levels, and the working of stopes or rooms. 4 hours.

Mining Geology 53a. Mining Engineering (Continued): In this course are considered hydraulicking, tramming, hoisting of ore, coal, and men, pumping, ventilating, lighting, explosions, fires, underground survey, and manipulation of men. 2 hours.

Mining Geology 54a. Ore Dressing: This course treats of the various methods of crushing and concentrating ores. 3 hours.

Mining Geology 55a. Metallurgical Laboratory: A course in which the student makes a practical study of the working of machines, furnaces, etc., used in the processes of ore preparation and metallurgy. The course further treats of roasting, smelting, amalgamating, leaching, and electrolytic treatment of copper, lead, silver, and gold ores. 4 hours.

Mining Geology 56a. Mining Operations: This course is in part a continuation of Mining Geology 55, but includes also a study of the various motors and sources of power in mining work. 2 hours.

Mining Geology 57b. Metallurgy of Ferrous and Non-Ferrous Mineral: This course deals with the processes for extracting

the various metals from their ores and treats of fuels and refractories, etc. Lectures. 3 hours.

PHYSICS

Professor Haseman

Primarily for Undergraduates

Physics 51a. Mechanics, Sound, Heat: Lectures, recitations, laboratory, and assigned reading. Four class periods and one laboratory period. Prerequisite, trigonometry. 5 hours.

Physics 52b. Electricity, Magnetism, Light: Lectures, recitations, laboratory, and assigned reading. Four class periods and one laboratory period. Prerequisite: Trigonometry. 5 hours.

For Undergraduates and Graduates

Physics 104a. Electricity and Magnetism: Lectures and recitations. The general theory of potential, lines and tubes of force, fields of force, and influence of media as applied to electrostatics and magnetism. A study of the electric current with the theory of electromagnetism and electromagnetic apparatus. Prerequisite, Physics 2, or 52 and accompanied or preceded by calculus. 4 hours.

Physics 105a. Electricity and Magnetism: A laboratory course including experiments on accurate measurement of current, resistance, electromotive force, capacity, induction, hysteresis loss, calibration of electrical instruments, etc. Must be accompanied or preceded by Physics 104. 1 hour.

PHYSICAL TRAINING

Director Darling

Physical Training 1a. Marching, calisthenics, Indian clubs, and dumb-bells. Required of freshmen. Dr. Darling. 1 hour.

Physical Training 2b. A continuation of Course 1 with the addition of elementary work on heavy apparatus. Required of freshmen. Dr. Darling. 1 hour.

SHOP WORK

Assistant Professor Aitkenhead

Shop 1a. Woodworking: The care and use of tools and woodworking machinery; exercises in sawing, planing, mortising, framing, dove-tailing, turning, and pattern making. Deposit required. 1 hour.

Shop 2b. Forge and Foundry Work: Forge work consists of care of forge, use of tools, forging, welding, tempering, tool making;

foundry work, moulding, casting, cupola practice, brass casting. Deposit required. 2 hours.

Shop 3a. Machine Shop: Chipping, filing, use of lathe, drill press, and emery wheels. Deposit required. 1 hour.

Shop 4b. Machine Shop: A continuation of Shop 3, using the shaper, planer, grinding machine, and milling machine, and constructing special exercises. Deposit required. 1 hours.

THE SUMMER SCHOOL

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

WARREN WAVERLEY PHELAN, Ph. D.
Director of the Summer Session, Professor of Psychology and Education.

JAMES SHANNON BUCHANAN, B. S.
Dean of the College of Arts and Sciences, Professor of History.

ALBERT HEALD VANVLEET, Ph. D.
Professor of Biology, Dean of the Graduate School.

FREDRIK HOLMBERG, B. M.
Dean of the School of Fine Arts, Professor of Music.

JOSEPH FRANCIS PAXTON, A. M.
Professor of Greek and Classical Archaeology.

JAMES WELLINGS STURGIS, Ph. D.
Professor of Latin.

HENRY HIGGINS LANE, M. A.
Professor of Zoology.

JEROME DOWD, M. A.
Professor of Sociology and Economics.

THEODORE HAMPTON BREWER, M. A.
Professor of English Literature.

LUCILE DORA, M. A.
Professor of the Romance Languages and Literatures.

MONROE ALLEN FLOYD, M. A.
Associate Professor of History.

JOHN HENRY VOSS, M. A.
Associate Professor of German.

ERRETT RAINS NEWBY, B. A.
Secretary, Registrar.

JOHN ALLEY, A. B.
Professor of Political Science.

Roy Temple House, A. M.
Professor of the Germanic Languages and Literatures.

Frederick Charles Kent, B. S.
Associate Professor of Mathematics.

Gayfree Ellison, B. S., M. D.
Professor of Bacteriology.

Andrew Clarkson Parsons, A. B.
Professor of Secondary Education, High School Inspector.

Charles Francois Giard.
Associate Professor of Piano and Theory of Music.

Angelo C. Scott, A. M., LL. M.
Professor, University Extension, English.

Joseph Whitefield Scroggs, A. M. D. D.
Professor, University Extension, Philosophy.

Louis Cogswell.
Associate Professor of Voice.

Jessie Lee Rader, M. A.
Librarian.

William Aitkenhead, B. S., M. A.
Assistant Professor of Mathematics.

Burton Frank Tanner, B. L.
Assistant Professor of Public Speaking.

Nellie May McGinley.
Instructor in China Painting.

Lawrence Nelson Morgan, B. A.
Instructor in English.

Earl Sellers Porter, A. M.
Instructor in Chemistry.

Rachel Revell, Ph. B.
Instructor in Physical Training.

Joseph Bradfield Thoburn, B. S.
Instructor in History.

Special Lecturers

Stuart A. Courtis, Detroit, Mich.
Consulting Director of the Department of Standardization, Measurement and Efficiency, University of Oklahoma.

HENRY F. COPE, A. M., D. D., Chicago, Ill.
General Secretary of the Religious Education Association.

A. E. WINSHIP, LL. D., Boston, Mass.
Editor, New England Journal of Education.

General Offices For Summer Session

The office of Director of the Summer Session is room 117 Administration Hall.

The office of the Dean of the College of Arts and Sciences is room 201 Administration Hall, and that of the Dean of the Graduate School is room 306 Science Hall.

The Committee on Admission meets in room 202 Administration Hall, and the Committee on Enrollment in room 116. The office of the Registrar is room 111.

SUMMER SESSION

The Summer Session begins regularly on the Monday following Commencement Exercises in June and continues eight weeks.

ADMISSION

For entrance to the Summer Session no formal examinations will be required, but admission will be granted upon application when it shall appear to the director of the Summer Session that the applicant is of sufficient maturity and training to profit by the exercises of the session.

CREDIT

Students who desire to secure college credit for work done at the Summer Session must satisfy the regular requirements for admission.

Students enrolling in the university for the first time who desire to receive college credit for courses pursued, should bring a certified copy of their preparatory and other credits. This will facilitate enrollment and classification.

Students deficient in entrance credits may make up their deficiencies by taking certain courses offered in the Summer Session which may be counted to fulfill the requirements for admission.

In general, credit will be given at the rate of one college hour for sixteen exercises. A course of eight lectures weekly during the eight weeks will have a credit value of four hours in college. A smaller or larger number of periods per week, will receive credit in due proportion to the time spent.

The normal amount of credit obtainable during the session, by a student devoting his whole time to courses strictly of university grade, is eight hours.

Students who do not enroll for credit will be given on application, certificates of attendance showing the amount and character of the work done.

A bachelor's degree represents 124 or more hours of credit, distributed according to the requirements of the College of Arts and Sciences. A master's degree represents 30 hours or more credit after the granting of the bachelor's degree.

GENERAL INFORMATION

The new University Hall in which most of the classes for the Summer Session will be conducted, is a handsome building of the collegiate gothic style of architecture. The laboratories and the library of the university and the various geological, zoological, ethnological, and other scientific collections are available for the use of students in the Summer School.

UNIVERSITY ASSEMBLY

Regular sessions will be convened each morning during the summer term from 9:00 to 9:30 a. m. in which students may attend a gathering of the entire student body. At this time short addresses will be made or round table discussions held.

HOURS

During the summer session, each day is divided into the following periods:

In the forenoon, five one-hour recitation periods and one half-hour chapel period, from 7 a. m. to noon; the afternoon is reserved for conferences and laboratory work. As indicated elsewhere a four-hour course meets eight hours a week, and a two-hour course four hours a week.

PHYSICAL TRAINING AND ATHLETICS

No formal work will be given in physical training during the Summer Session. The tennis courts, the athletic field including the track and baseball grounds, and the baths of the gymnasium, are open for the use of the summer students.

RECREATION

The social and recreational features will be made attractive. Informal receptions, musicals and picnics are frequent.

Lectures and Musicals

In addition to the regular courses of the summer session arrangements are made for a series of evening lectures and musicals open to all students of the summer school.

FEES AND EXPENSES

Tuition is free in all departments of the university. Students taking private lessons in the School of Fine Arts must pay the fees described below. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted to students neglecting to pay the actual cost of such loss or damage nor will honorable dismissal be granted such students.

In all laboratory courses students must pay the actual cost of

material used. In some courses a fixed charge based upon the estimated cost of material is made and must be paid before beginning the work. In most laboratory courses a laboratory coupon book costing three dollars must be purchased by the student for each course and deposited with the instructor. From this book the cost of material issued to the student will be taken at the time of issue. Additional books must be purchased from time to time as may be necessary. Any unused portion of such laboratory coupon books will be refunded in cash at the end of the Summer Session.

Board and Room

Board, including furnished room, can be had for from $4.00 to $6.00 a week. The average cost of living is as low in Norman as in any other town of its size in the state. The general advance in prices, however, so noticeable during the past several years, has increased the cost of living here as elsewhere. Applications for assistance in securing board and rooms should be addressed to the Committee on Accommodations.

CONFERENCES

During the summer session conferences are held each week on some leading educational question.

The conferences for the summer of 1914 include:

Conference for superintendents and principals on educational measurement.

Conference on moral education.

Playground conference.

State high school conference.

The American Peace League.

Oklahoma Story Teller's League.

Conference on Oklahoma Folk Lore and Indian Legends.

ORGANIZATION

The work of the Summer Session has been organized to fit the needs of six classes of students.

A. Candidates for the degree of Bachelor of Arts in the College of Arts and Sciences.

B. Candidates for the degree of Master of Arts in the Graduate School.

C. Teachers whether candidates for one of these degrees or not.

D. City and County Superintendents and Normal School Teachers, pursuing the special short course.

E. Special students in music and painting.

F. Students making up admission requirements.

A. CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

Candidates for the degree of Bachelor of Arts should confer with the dean of the College of Arts and Sciences with reference to the choice of subjects. For such students there are provided:

a. Required courses
b. Courses that fill the group requirements
c. Courses counting as major work for the bachelor's degree
d. Free electives in addition to the above courses

B. CANDIDATES FOR THE DEGREE OF MASTER OF ARTS

Candidates for a Master's degree should confer with the Dean of the Graduate School in order to make sure that the proper admission credits have been filed, and that the courses of study have been selected in accordance with the regulations governing the graduate school as set forth in the general catalogue of the university.

Candidates for a master's degree must complete thirty hours of work in one major subject and one or two minor subjects. To each minor subject shall be devoted approximately one half of the work devoted to the major subject. The major and minor may fall within the same department. If two minors are selected one must be chosen from another department.

Each candidate for a master's degree must prepare a thesis. The subject of the thesis, approved by the student's major professor, must be chosen before the close of the first summer session the candidate is in attendance. The completed thesis must be in the hands of the student's major professor two weeks before the close of the summer session in which the student applies for his final examination. On the recommendation of the major professor the dean may excuse a student from presenting a thesis.

With the consent of the department concerned, fourteen hours credit towards the master's degree may be earned through correspondence courses. Eight hours constitute full work for a summer summer session. It is, therefore, possible for a student to complete the work for the degree by attendance upon two summer sessions, supplemented by fourteen hours of credit earned through correspondence courses. It is earnestly advised however, and in most eases required, that the candidate complete three summer sessions in residence, supplemented by six hours of credit earned through correspondence courses. In either case the last eight hours must be earned in residence. All correspondence courses must be approved by the student's major professor and by the Dean of the Graduate School.

C. COURSES FOR TEACHERS

The Summer School of the University of Oklahoma desires to present material of special value to teachers along the following lines:

First, for teachers who have little or no university credit but who expect ultimately to become candidates for a degree. Such teachers should select subjects immediately applicable to their work of teaching, but preferably from among the courses required for graduation.

Second, for graduates of the Oklahoma state normal schools or equivalent normal schools or those who have at least sixty hours of college credit. Such candidates should enroll in the School of Education. Arrangements have been made whereby graduates of the regular course of the Oklahoma state normal schools who have had two years of normal training above the admission requirements to the university, are granted 60 hours of credit, thus enabling them to complete the university course and earn a degree in two years. These teachers likewise should select subjects immediately applicable to the work of teaching. They should, however, confer with the Dean of the College of Arts and Sciences with reference to completing the prescribed courses.

Third, for teachers who are not seeking college credit but who wish merely to select courses of special interest in teaching.

Fourth, for teachers holding a bachelor's degree who by attendance during two or three summer sessions and by completing courses by correspondence may obtain the master's degree. The general plan of work required for a master's degree is outlined above under the heading "Candidates for the Degree of Master of Arts".

The master's degree in education may be obtained by selecting education as the major and psychology as the minor subject and completing in these two departments thirty hours of work selected from among courses counting for credit for a master's degree. In general, however, it is recommended that an additional minor be selected from some other department offering graduate courses in subjects taught in high schools.

Courses in special methods of teaching various high schools subjects may be counted as graduate work in the department of education.

Graduate courses in education and psychology will be offered in such a way that progressive work may be followed in three successive summers.

Candidates desiring a larger amount of graduate work in other subjects may make education or psychology a minor as indicated in the general plan for a master's degree given under the heading "Candidates for the Degree of Master of Arts." Teachers may thus secure graduate work in the subject or subjects that they regularly teach and combine

these with general courses in education and specific instruction in methods of teaching.

Students enrolled in the School of Education who complete the work for a bachelor's or a master's degree including the prescribed courses in education outlined under the heading School of Education will be granted in addition to the degree, a life teacher's certificate to teach in the public schools of Oklahoma. (See general catalogue "School of Education".)

D. CITY AND COUNTY SUPERINTENDENTS AND NORMAL SCHOOL TEACHERS

Special short courses of value to county and city superintendents are offered in the summer session. Annoucement of these courses are made in the summer session bulletin.

E. SPECIAL STUDENTS IN MUSIC AND PAINTING

Private lessons in piano, in voice, in violin, in painting, and in expression will be given by members of the regular faculty of the School of Fine Arts, as described in the summer session bulletin. For this instruction the regular fees are charged.

F.—STUDENTS MAKING UP ADMISSION REQUIREMENTS

For such students first year Latin, second year Latin and Plane Geometry are offered, a full description of which will be found in the summer session bulletin.

For complete description of courses offered in the summer session, address,

Secretary, University of Oklahoma, Norman, Oklahoma.

ROLL OF STUDENTS

DEGREES CONFERRED

Twenty-first Annual Commencement, June 12th, 1913

BACHELOR OF ARTS

Ransel Eugene Andrew
Jasper Phineas Baldwin
*Agnes Mary Berrigan
*Roger Errett Berry
*Nellie Blum
James Winfred Capshaw
Gleen Cecil Clark
*Earl Christmas
Howard Cook
Emmet DeWit Cornelius
Clarence Irvine Cowden
Carl Robert Cowles
Vernice Earle Danner
Paul Gladstone Darrough
*Eunice Ester Denison
Samuel Arthur Denyer
Ada May Eastland
Clyde Frances Forbes
*Ola Alice Forbes
*Rhoda Olivia Foster
Elmer Beal Gardner
Bettice Alston Garside
Moses Elmer Gaskill
Vera Delle Gorton
Sarah Deborah Haines
John Thomas Harley
Mary Harness
Reginald Nichols Hocker
Frank George Howe
Robert Edwards Jackson
Joe Weaver Johnson
*Nina Estelle Keiger
*Grace Martha Leach
Clyde Homer McCracken
Burr Best McWhirt
Ray Ferrell Meacham
Milton Frederic Meyer
George Harrison Myers
Harry Worth Nighswonger
Robert Moore Parkhurst
*Esther Patton
*Winnie D. Robey
*Constance Stratton
Dona Ogle Wheeler
*Martha Annette Whitehurst

BACHELOR OF SCIENCE

Lucile Spire Blachly
Willis Kelly West
Harry Slatkin

BACHELOR OF MUSIC IN THEORY OF MUSIC

Elizabeth McMillan

BACHELOR OF MUSIC IN PIANO

Gladys Mildred Anderson
Ida Agnes Pyle
Vera Delle Gorton
Doris Mundy

*These receive also a teachers life certificate from the School of Teaching.

BACHELOR OF MUSIC IN VOICE

Georgia May Curtis

BACHELOR OF MUSIC IN VIOLIN

Ruth Brannon Newell

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Albert Edward Gartside

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Henry Thomas Asbury
Weaver Everett Holland
DeAuburn Ballard
Leo Hiawatha Gorton

BACHELOR OF LAWS

Crawford Williams Cameron
Roscoe Newton Cox
Otto Earl Foster
Charles Harrison Harrington
William Walter Hentz
James Dortis Hollond
Elton Ballinger Hunt
Charles Boggy Johnson
Milo J. Jones
James Monroe Little
Thomas Marcum McCombs
Daniel Newman McIntosh
James Nairn
Claude Houston Rosenstein
John Bryon Sowder
Archie Glenn Swanson
Raymond Augustin Tolbert
Frank Nelson Watson

DOCTOR OF MEDICINE

May Adah Drew
Thomas LeRoy Lauderdale
Roy Alton Morter
Harry Price
Robert Hickman Riley
James Wilson Rollo
R. Earle Smith
Alvin Ray Wiley
Asa Wright

GRADUATE NURSE

Margaret Nevada Jones
Helen Alice Brown Murphy
Abbie Venice Odell
Cora Etta Phipps
May Belle Powell
Susan Eliabeth Westmoreland

PHARMACEUTICAL CHEMIST

Manley Elvin Bailey
Clarence Edgar Bates
Josiah Braden Black
Theodore Nathaniel Cottrell
Earl William Groves
Clarence Edward Haas
James Bryant Holman
William Robert Hood
Edwin Clarence Houston
Clarence Johnson
Clarence Knappenberger
James Hutchinson Lane
Alonzo Grady Malone
Charles Leo Murphy
Ana Pickard
George Larrabee Risen
Raph Gordon Smith
Floyd Overton Tribbey

MASTER OF ARTS

William Aitkenhead
Maurice Orpheus Wood Pearl
Agnes Mary Berrigan
Laurence Emory Trout

MASTER OF SCIENCE

Howard Storm Browne

GRADUATING EXERCISES—SUMMER SESSION 1913

BACHELOR OF ARTS

*Dora Eddie Buford
Robert North Dunn
*Lydia Ethel Ehman
*Mary Robey Harris
Bertha Anne Haseman
James Fulton Hatcher
George Robert Hill
*Anne Elizabeth McLaughlin
*Louie Aline Moore
*Arthur Lee Richards
Sam Jones Smith
Earl Everett Sneed
Benjamin Harrison West

MASTER OF ARTS

Jesse Lee Rader

*These receive also a teachers life certificate from the School of Education.

ROLL OF STUDENTS

Explanation: Letters and figures after a name indicate which school or schools the student enrolled in, and the amount of credit earned. A—Arts and Sciences; E—Engineering; F—Fine Arts; G—Graduate; L—Law; M—Medicine; N—Training School for Nurses; P—Pharmacy; X—Extension.

A small letter "u" after the name of the school indicates that the student is unclassified, that is, is doing special work or is deficient in entrance credits.

The figures after the name of the school indicate the number of hours credit earned in that school.

The "group" in the School of Fine Arts indicates classification in technical work, group I corresponding to freshman standing; group IV to senior, etc.

The letters and figures in parentheses indicate which semesters the student was enrolled; i. e., 1—first semester; 2—second semester, s—summer session; a—in absentia. The letter "n" indicates that the student enrolled for the first time in the university in the session immediately following the "n".

Third and fourth year medical students are marked "3rd" and "4th".

Abbott, Rolly L 16 [1, 2]	Newkirk
Abernethy, Ewing E 88 [1]	Lexington
Abney, Hildred A u 8 [ns]	Norman
Abney, Louis L 13 [n 1, 2]; A [2]	Stratford
Absher, William Floyd A 22 [ns, 1, 2]	Norman
Acree, Bessie Louise A 12 [n 1, 2]; F [2]	Norman
Acree, Maud A u 8 [ns]	Norman
Adams, Birdie May A u [ns]	Holdenville
Adams, Henry Grady M u 3rd [n 1, 2]	Abbeville
Adams, James Elston M 19 [n 1, 2]	Chandler
Adams, John Franklin A u 11 [s]	Lawson, Mo.
Adams, Varena Mary X [n 1]	Oklahoma
Aikman, Claude Edward P 17 [n 1, 2]	Jenks
Aitkenhead, William Charlton A u [s]	Norman
Alexander, Alice Buckley A u 7 [ns, 1, 2]	Norman

Alexander, Lillian Alice F u 2 [1] Norman
Alexander, Emma F 58 group IV [s,1, 2] Norman
Alexander, Etta Dealva A 117 [s] Norman
Alexander, Frank McLain A u 2 [n s] Norman
Alexander, Minerva F u group 1 [n 1] Norman
Alexander, Robert Emmet L u 44 [1] Alex
Alexander, Virgil Zay A u [n s] Norman
Allen, George Wallace L 40 [1, 2] Norman
Allan, Pauline F u [n 2] Norman
Allen, Roy E 18 [n 1] Geary
Ambrister, Hubert L 68 [1, 2] Norman
Ambrister, Roy A 17 [n 1, 2] Norman
Amis, Edwin Ross L [n 1] Ramona
Amis, Margaret Ethel A 43 [1, 2]; F u [1, 2] Ramona
Anderson, Eva Marie, A 118 (s, a, 1 ,2); F (1,2) Norman
Anderson, George A 21 [1, 2] Ardmore
Anderson, Helen Rebecca A u 44[1,2];F group II [1, 2] Pryor
Andrew, Ransel Eugene G 16 [1, 2] Oklahoma
Andrew, Sadie X [n 1, 2] Oklahoma
Anglea, Hill L 40 [1, 2] Edmond
Anthony, Mabelle N [1, 2] Oklahoma
Armstrong, Minnie Burrus A 17 [1]; F u [1] Boswell
Armstrong, William Judson A 113 [1,2]; L 13 [1, 2] Boswell
Arnett, Clarence Lester E 126 [1, 2] Oklahoma
Arnold, Mabel A 25 [n 1, 2]; F u [1, 2] Thomas
Asher, Frona F u 6 [1, 2] Norman
Aughinbaugh, Ruth A 109 [n 1, 2] Norman
Aurin, Fritz A 117 [n 1, 2] Tecumseh
Avant, Doyle Rexford A u 34 [s] Bokchito
Avey, Martha X [n 1, 2] Oklahoma
Avey, Mary X [n 1] Oklahoma
Bailey, Manley Elvin M u 26 [1] Norman
Bailey, Ollie Hazel A 13 [n 1, 2] Norman
Bailey, Ruth F u 15 group III [1] Oklahoma
Baines, Roy Dixie A 51 [1, 2] Hennessey
Baker, Benjamin Howard P u 17 [n1, 2] Norman
Baker, Eda Mary A 44 [s, 1, 2] Opalos, Kan.
Ballinger, Harry Carlisle A [n2] Andarko
Balyeat, Frank Allen G 6 [s] Anadarko
Balyeat, Gladys Glee F u 18 group 1[1,2];A18[ns,1,2]Norman
Balyeat, Mabel Alexander A u [s] Anadarko
Balyeat, Ray Morton X [1]; P [2] Oklahoma
Banta, Carl Henry A u 8 [n1]; L u [1] Strafford

Barb, Kirk Bentley M 3rd [1, 2]; A [s] Oklahoma
Barbour, Avis Caroline A 108 [a, 1, 2] Prague
Barbour, Mrs. Frona F u [n 1] Norman
Barbour, Kate Clytie G [s] Norman
Barnes, Ernest Sylvester G 21 [s] Hillsdale
Barr, Katherine Abernethy A 42 [s, 1, 2] Westfield, N. J.
Barr, Mrs. Lula Abernethy A u 5 [ns, a] Chickasha
Barrett, Bertha Marie A 10 [nl,2]; F 10 group I [1,2] Norman
Barrett, Edith F u [1] Stillwater
Barry, John William L u 12 [nl,2]; A u 23 [2] Cherokee
Bartlett, Theodore Elbridge A 120 [s,1]; X Cherokee
Barton, John Page A [n2] Perry
Barton, Stella Lee A 83 [s,1,2] Chickasha
Bassett, Grace X [nl] Oklahoma
Bassett, Orrin Albert X [nl] Oklahoma
Bassett, Orval Monroe A 106 [s,1,2] Granite
Bates, Claude Lee P u [nl] Konawa
Bates, Samuel P u 9 [nl,2] Konawa
Baughman, Iris X [nl] Oklahoma
Bayless, Bourke Hamilton A 48 [1,2] Claremore
Bayless, Wayne A 17 [nl,2] Claremore
Beasley, Wiley Boss L 50 [1,2] Guymon
Beattie, Helen A [n2] Oklahoma
Beesley, Wade Hampton L u 15 [1,2]; A u 20 [1] Bokoshe
Bell, Charles Curry A 80 [1,2] Tonkawa
Bell, John Montgomery A u 73 [a, 1, 2] Tonkawa
Bennet, Armond Mepham A 32 [1, 2] McAlester
Bennett, Jim Basden E 130 [1,2] Norman
Benson, Lou X [nl] Oklahoma
Berger, Walter A 16 [nl,2] Wynnewood
Bernstein, Samuel M 50 [nl, 2] New York City
Berrigan, Allegra A 67 [s,1,2] Waukomis
Berrigan, Ruth A u 5 (n, s) Waukomis
Berrigan, Mrs. Edmond A u [ns] Waukomis
Berrigan, William Jack A u [ns] Waukomis
Berry, Avo A 17 [s] Norman
Berry, Charles Nelson M 64 [1, 2]; A 122 [1, 2] Norman
Berry, Lee Marie A u [ns] Norman
Berry, Leo Alonzo M 49 [nl, 2] Salitpa, Ala.
Berry, Raymond Clyde L 12 [1, 2] Norman
Besett, Ethel May A 13 [nl, 2] Ramona
Biggers, Helen Louise A 13 [nl, 2] Norman
Biggers, Jesse E u 16 [1, 2] Norman

Biggerstaff, Estella Agnew A 98 [a] Altus
Billins, Florence X [nl] Oklahoma
Binkley, James Garfield M 19 [nl, 2] Guymon
Bird, Jack A 22 [1, 2] Pawhuska
Bivens, James Andrew A 37 [1, 2] Ardmore
Black, Early A 13 [nl, 2] Norman
Black, Ora A u 9 [ns] Stone
Blackert, Carl Deming A u 3 [ns] Geary
Blackert, Franz Edward E u 18 [1, 2]; A u [s] Geary
Blackert, Helen Ione A 56 [s,1,2]; F 35 group II [s, 1,2] Geary
Blackert, Kathryn A u 6 [ns] Geary
Blackert, Orlo Leroy A u [ns] Geary
Blanchard, Lela F u group II [1, 2] Norman
Blanchard, William Grant A 43 [1,2]; F group II [1,2] Purcell
Bledsoe, Roy Eugene L 32 [1, 2] Oklahoma
Bliven, Marguerite A u [ns] Hennessey
Bloom, Nathan M u 44 [n 1, 2] New York City
Boatman, Andrew Nimrod L 12 [1, 2]; A 107 [1,2] Oklahoma
Boaz, Nida A 17 [n1] Henrietta
Bobo, Olgo A u [s] Norman
Bode, Katherine F u [n1] Norman
Bohrer, Claude Ray E 18 [n 1, 2] Norman
Bohrer, Lottie Jessie A u 87 [s,1, 2] Norman
Bohrer, Maude May A u 5 [n s] Norman
Boles, Cherokee Cynthia F u group 1 [n 2] Muskogee
Bollman, Noah Newton A 93 [1, 2] Collinsville
Bond, George A 108 [s,a,1,2] Terral
Bounds, Overton A u [n 2] Kingston
Bounds, Robert Martin L u 39 [1, 2] Royse City, Texas
Bowen, James A u 17 [n 1, 2] Temple
Bowen, Orloff Lake A 49 [1, 2] Caddo Mills, Texas
Bower, Harold A u 10 [n s] Bedford, Ia.
Bowles, A G. X Skiatook
Bowling, Charles A 65 [s] Norman
Bowling, Hazel Marguerite A u 5 [n s] Norman
Boyd, Elizabeth Virgina A 16 [n 1, 2] Oklahoma
Boyd, Thomas Madison M 19 [n 1, 2] Norman
Boyd, William X [n1]; M u [2] Oklahoma
Boylan, Ebert Elwynn A 17 [n 1, 1] Shawnee
Bozell, Isadel Heath G 5 [s] Norman
Bradfield, Samuel M u 3rd [n 1, 2] Overbrook, Kansas
Bradley, Frank Edward P 60 [1, 2] Noble
Bradley, Harold Clayton M 19 [n 1, 2] Geary

Bradley, Lyle Alwin F [n 1]	Geary
Bradley, Robert X [n 1, 2]	Ada
Brake, Charles Arthur M 19 [n 1, 2]	Geary
Braucht, Orville L 7 [n 1, 2]	Newkirk
Brauer, Hanna Emma A 25 [s, 1, 2]	Norman
Brauer, Marie Emelyn A 59 [s, 1, 2]	Norman
Breckner, W. L. X	Cheyenne
Bretch, Don Milone L 67 [1, 2]	Hobart
Bretch, Luella Mildred A 118 [1, 2]	Hobart
Bretch, Pauline A 95 [1, 2]	Hobart
Brewer, Mack Hamilton A u 4 [n s]	Murfresboro, Ark.
Brewer, Otto Adolph A 25 [n s, 1, 2]	Norman
Bridges, J. W. A u [n s]	Edmond
Briegel, Rosetta Angeline A 88 [a 1, 2]	Thomas
Briggs, Lydia F u group I[1, 2]	Norman
Brillhart, Norman A u 17 [n 1, 2]	Norman
Brittain, Lee F u [n1]	Norman
Brittain, Mrs. S. A. F u [n1]	Norman
Brogan, J. Leon L 11 [n1, 2]	Muskogee
Bronaugh, Zue Mac F u 16 group II [1, 2]	Hugo
Brooks, Bee A u 14 [s]	Comanche
Brooks, Dorothy F u group I [1, 2]	Norman
Brooks, Florence Eddy A 17 [n 1, 2]	Chickasha
Brooks, Marian A 88 [1, 2]	Norman
Brown, Arthur Merton E 49 [1, 2]	Comanche
Brown, Eugenia Lillian A u [s]	Norman
Brown, Flavius George P 17 [n 1, 2]	DeQueen, Ark.
Brown, Harry James A 113 [1, 2]	Anadarko
Brown, Henry Leo X [n1]	Oklahoma
Brown, James Winter M 4th [n 1, 2]	Reidbury, Pa.
Brown, John Damsell A 17 [n 1, 2]	Anadarko
Brown, Leon Hart L 14 [n 1, 2]; A [2]	Mangum
Brown, Ruth Winfred A 79 [n 1, 2]	Alva
Brown, Willie Jewel N [s, 1, 2]	Oklahoma
Browne, Howard Storme G 47 [1]	Norman
Bryan, Earl L [n 2]	Oklahoma
Bryan, Lina Eloise F 59 group IV [1, 2]	Nelson
Brydia, Carrie Marie A u 34 [1]	Okmulgee
Buchanan, Francis F u group I [s,1,2]	Norman
Buford, Dora Eddie A 124 [s]	Arapaho
Bumgarner, Grace Lucile F u [n2]	Norman
Bump, Marie A 117 [n1, 2]	Oklahoma
Burch, Ruth Erskine A 22 [s]	Norman

Burress, George Howard A u 61 [s, 1, 2]	Ponca City
Burress, Walter March A 17 [n1, 2]	Ponca City
Burris, A. H. X	Temple
Burrow, Reuben Nash P u 55 [1, 2]	Doyle
Burton, Samuel David A 64 [a]	Erick
Busby, Orel L 68 [1, 2]	Konawa
Buthod, Charles Paul A 69 [ns, a]	Bison
Butler, Anna May F 36 group II [1, 2]	Norman
Butler, E. E. A u [ns]	Cache
Butler, Melton Clifton A 53 [n1]	Mangum
Buttram, William A 112 [s, 1, 2]	Ada
Buxton, Elaine A u 10 [n1]	Oklahoma
Byrne, William Eugene E 51 [1, 2]	Ft Sill
Cahall, Leah A u 27 [s2]	Norman
Cain, Homer Dodge F 25 group III [1, 2]	Norman
Cain, Howard Stanley P 47 [1, 2]	Temple
Caldwell, Hazlitt Bond E 18 [n1,2]	Shawnee
Caldwell, Homer A 16 [n1, 2]	Wheatland
Caldwell, Lyda Robertson A u 100 [s,1,2]	Jackson, Tenn.
Calhoun, Marjorie F u [n1,2]	Purcell
Cameron, Donald A [n2]; X [1]	Muskogee
Campbell, Henry X [n1]	Oklahoma
Campbell, James Alonzo M 3rd [n1, 2]	Atmore, Ala.
Campbell, Willard A 17 [n1, 2]	Anadarko
Caperton, Helen X [n1]	Oklahoma
Capshaw, Elmer Alexander A u 78 [1, 2]	Norman
Capshaw, Fanny Haynes A 108 [s, a, 1, 2]	Norman
Capshaw, Fred L 68 [1, 2]	Norman
Capshaw, Naomi May F u group I [1, 2]	Norman
Carder, William Roy A u 9 [ns, a]	Cherokee
Carey, Charles Edward E 131 [1, 2]	Norman
Carlton, Lawrence M u 19 [n1, 2]	Oklahoma
Carpenter, Murel Edward E u 31 [1, 2]	Collinsville
Carper, Walter Stephen A u 6 [ns]	Cleburne, Texas
Carr, John Houston A u 6 [ns]	Mangum
Carr, Pauline A u 17 [n1, 2]	Frederick
Carr, William Austin A u 9 [ns]	Mangum
Carson, Lewis P 16 [n1, 2]	Tecumseh
Carter, Claudice X	Wakita
Carter, Vivvel E. X	Marlow
Cash, Edna A 74 [s, a]	Oklahoma
Castile, Andrew Robert A u 38 [s2]	Norman
Caywood, Inez X [nl]	Oklahoma

Chadwick, Grace F 12 [n1, 2]	Oklahoma
Challes, Annie X [n1]	Oklahoma
Chance, Vanna Belew X [n1, 2]	Ada
Charles, John Banister A 32 [1]	Stroud
Chase, Agnes Miriam F 65 group IV [1, 2]	Wynnewood
Chase, Mabel Dora G 8 [s]	Wynnewood
Chastain, Mrs. E. R. F u [n1, 2]	Norman
Cheadle, Francis Graham A u 5 [s]	Norman
Cheadle, Mrs. J. B. A u [ns]	Norman
Chitwood, Walter Newton L [n2]	Tulsa
Christian, Roscoe Loran L 42 [1, 2]	Manitou
Christmas, Earle L 10 [1, 2]	Pond Creek
Chumley, Chonner Polk M u 29 [n 1, 2]	Collinsville, Ala.
Clanton, Allie P u 12 [n 1, 2]	Supply
Clare, Ross P u 17 [n 1, 2]	Oklahoma
Clark, Ademia Elizabeth A 16 [n, 1, 2]	Bristow
Clark, Alma Willie A 17 [n 1, 2]	Texola
Clark, Geneva Alma F 9 group II [n 1, 2]	Hominy
Clark, Randal E 55 [1, 2]	Shawnee
Clark, William Lynn A u 76 [1, 2]	Comanche
Clarke, Carl William A 16 [1, 2]	Weleetka
Clarke, Josephine X [n 1, 2]	Oklahoma
Clift, Hubert Ellwood L 25 [1, 2]	Blackwell
Clifton, Adelia X [n 1]	Oklahoma
Clifton, Leonard LeRoy A 77 [1, 2]	Norman
Clifton, Ruby Blubaugh F u 14 [n 1, 2]	Norman
Cline, Everett Lorraine L 70 [1, 2]	Newkirk
Cline, Tilghman John A 106 [a, 1, 2]	Atoka
Clinkscales, Albert Sidney A 17 [n 1, 2]	Vinita
Cockrell, Alfred Mordica A 81 [a s]	Holdenville
Cohagan, Chester A u [n 2]	Sapulpa
Colbert, Holmes A u 5 [n 1]	Sulphur
Collier, Lula Belle N [n 1, 2]	Oklahoma
Collier, Trannie Lamar A 63 [n s, a]	Durant
Collins, Harvey Thomas A 49 [1, 2]	Norman
Cook, Emery Allen A u 13 [1, 2]	Pawhuska
Cook, Reva A u [s]	Pawhuska
Cope, Francis F u 4 [n 1, 2]; A u [1, 2]	Elk City
Copeland, Richard Gardner A 68 [1, 2]	Chickasha
Corbin, Bertha Benton A u [n s]	Norman
Cordell, John William A 17 [n 1, 2]	Guthrie
Corkill, William Edward M 15 [n 1, 2];A 54 [1, 2]	Chandler
Cornelius, Emmett Dewitt G [s]	Lindsay

Corporon, George William L 40 [1, 2]; A 9 [s] Norman
Cotton, Cecil A u 16 [n 1, 2] Enid
Cotton, David Hester A 41 [n 1, 2] Hickory
Courtright, Homer Bacon A 20 [ns]; F 20 group I [1,2] Norman
Courtright, Raymond Orland A 107 [s1,2]; F (2) Norman
Cousins, Tommy N [1, 2] Eldorado
Coutant, Ben Wallace E 33 [n1, 2] Mt. Pleasant, Mich.
Cowan, Edgar A u 9 (ns) Chickasha
Cowan, Mrs. Edgar A u (n s) Chickasha
Cowan, Edmund Ellis A u 8 (ns) Chickasha
Cowden, Clarence Irvine L 66 [2] Oklahoma
Cox, Delbert Clyde P u 33 [1] Sulphur
Cox, Roy William L 13 [1, 2]; A 108 [1, 2] Arapaho
Cralle, Walter Odro A 76 [s, 1, 2, a] Elizabethtown, Ky.
Cralle, Zella Mae A 46 [1, 2] Norman
Cratty, H. T. X Grandfield
Crisp, George Marion A 56 [1, 2] Norman
Crisp, Leonora Mabel Vincent A 13 [1,2] Norman
Crooks, Leo Earl E [n 1] Cushing
Cross, Howard A 65 [1] X Lamont
Cross, James Napoleon P u 12 [n1] Cheyenne
Crouch, Alta Bernice A u [ns] Mounds
Crowe, Will James L 38 [1, 2] Oklahoma
Cruce, Lorena Jane A 56 [1, 2]; F 56 group III(1,2) Oklahoma
Cullen, Caleb A 61 [1, 2] Ingleville, N. Mex.
Cullen, John A 52 [1, 2] Ingleville, N. Mex.
Cullen, William A 61 [1, 2] Ingleville, N. Mex.
Culver, Orlando G [a] McLoud
Cunningham, Clark Marvin A 23 [n1, 2] Oklahoma
Curlee, Clyde X Oklahoma
Curtis. Alpha L [n1] Sallisaw
Curtis, Georgia May F g [2] Norman
Curtis, Mrs. Lou F u [n1] Norman
Daigh, Winnie X [n1] Oklahoma
Daniels, Jesse A u 15 [s] Oklahoma
Dannenberg, Waldemar Nathaniel A 111 [a,1,2]; F u [1] Chelsea
Darrough, Paul Gladstone L 40 [1, 2] Hugo
Darrow, Alice Verley N [n2] Oklahoma
Dashner, Nell A 16 [n1, 2]; F [2] Chickasha
Davenport, Paul Clifford F u [n2] Chickasha
Davis, Charles M 4th [n1, 2] Combs, Ark.
David, Edward X Union
Davis, Elbert Oliver A 81 [1, 2] Atoka

Davis, Fred L u [n 1]	Norman
Davis, George Fred M 60 [n1, 2]	Harveyville, Kans.
Davis, Gilbert Lawton A 46 (n1, 2)	Atoka
Davison, Chester M 3rd (n1, 2)	Garden City, Kans.
Davison, Denver Norton L 36 [1, 2]	Bokoshe
Davison, Hazel A 17 (n1, 2)	Michigan Valley, Kans.
Dawson, Raymond Lester A 78 (1, 2)	Oklahoma
Dawson, Wyclif A u 16 (n1, 2)	Carnegie
Dean, Malinda Wier A 17 (n1, 2)	Watonga
Deckard, Gertrude A u 44 (n1, 2)	Shawnee
Dellis, Dora Dean A u 74 (n1, 2); F u (1)	Blackwell
Dendy, Ozella Laura F u [1]	Elmore
Dendy, Samuel Marcus A u 67 [s, 1]	Elmore
Denison, Belva Ruth A 45 (1, 2); F u (s)	Norman
Denison, Eunice Esther G [s]	Norman
Denison, Rodger E u 11 (n1)	El Reno
Denyer, Samuel Arthur L 26 (2)	Chandler
DePorte, Seymour M 14 (n1, 2)	New York City
Dersch, Walter M 19 (n1, 2)	St. Joseph, Mo.
Devore, Leland E 17 (n1, 2)	Ponca City
Diehr, Margaret Bond X (n1)	Oklahoma
Dilworth, Minnie A u (ns)	Eufala
Disney, Orville A 17 (n1, 2)	Sedan, Kans.
Ditzler, Harold Tate A 14 (1, 2)	Ardmore
Ditzler, Walter Linginfelter A 107 (1, 2)	Ardmore
Dolph, George Logan E 18 (n1, 2)	Guthrie
Dolton, Florence N (n1, 2)	Oklahoma
Donnely, Teresa A u 3 (s); F u (1, 2)	Norman
Donovan, J. Wilmer A 16 (n1, 2)	Oklahoma
Doolen, Stella Virgin, A u 48 (s, 1, 2)	Norman
Doolittle, Nettie Alice A 9 (ns); X	Crescent
Dorough, John M 3rd (n1, 2)	Oklahoma
Dougherty, George Lewis A 20 (n1, 2)	Covington
Douglas, Frank L u 14 (n1, 2)	Weleetka
Dowd, Alma Watkins F g (2)	Norman
Doyal, Joyce N (s, 2)	Oklahoma
Doyle, Margaret X (n1)	Oklahoma
Dreher, Henry M 3rd (n1, 2)	Natoma, Kans.
Driggers, James Robert A 35 (1, 2)	Chickasha
Dubois, Jules A u 17 (n1, 2)	Oklahoma
Dudley, Mrs. J. B. F u (n1)	Norman
Dudley, F. Marion L 14 (n1, 2)	Welch
Duncan, Edwin Burton A 109 (s, 1, 2); L 6 (1, 2)	Oklahoma

Duncan, Frank Ripley L (n1) Ozark, Mo.
Dunn, Robert North A 124 (s); L 38 (1, 2) Poteau
Duvall, Dollie A 55 (n1, 2) Tonkawa
Duvall, Josephine A 55 (n1, 2) Tonkawa
Dwight, Benjamin Hunter L 12 (1) Durant
Dyer, Nell F u group II (n1) Oklahoma
Eagleton, Elvie Elizabeth, A 114 (s, 1); F u (1); X Norman
Eagleton, Mary Eloise F u group III (1, 2). Norman
Eagleton, Olive A 120 (s, 1, 2) Norman
Eagleton, William Lemuel A 106 (s, 1, 2) Norman
Early, Roy Erastus X (n1, 2) Ada
Ebright, Carolyn Brighton X (n1) Peabody, Kans.
Echols, Walter A u 1 (ns) Durant
Eddy, Dulcenia A 77 (n1, 2), F group I (1, 2) Edmond
Edwards, Eva Mary A u 6 (n s) Lenapah
Edwards, Hattie A u 8 (ns) Lexington
Edwards, Irena X Tulsa
Edwards, Jeffie Elmer A u 9 (ns) Wagoner
Edwards, Lincoln A u 6 (ns) Kiowa
Edwards, Mary Agnes A u 3 (2) Norman
Edwards, Navarre A 3 (ns, a) Lexington
Edwards, Pauline A u (ns) Norman
Ehman, Lydia Ethel A 124 (s) Sulphur
Eischeid, John Theodore A 112 (1); X Norman
Eischeid, Will Walter P 17 (n1, 2) Norman
Elder, Lula Emma G 26 (s) Granite
Elledge, Izma Pauline A 13 (n1, 2) Norman
Elledge, Louise A 90 (n1, 2) Blackwell
Ellenberger, Myrtle Faye G (1) Norman
Elliott, Floy Valeria A 83 (s) Marshall
Ellis, Mitchell Overman A u 18 (s, 2) Orlando
Ellison, Anna F u (n 2) Norman
Elrod, Stella Elizabeth F u group II (1, 2) Kemp
Emerson, Daniel X Spaulding
England, Abner Elliott A u 16 (n1, 2) Durant
Erickson, Arthur Erick E u 18 (n1, 2) Oklahoma
Erickson, Emanuel Eric X (n1, 2) Ada
Erickson, Jennie Sophia A 85 (1,2); F group II (1,2) Oklahoma
Etter, Mabelle X (n1) Oklahoma
Evans, Robert David E 124 (1, 2) Oklahoma
Everest, Grace X (n1) Oklahoma
Everest, Harvey X (n1) Oklahoma
Falkenbury, Donna Julia F 15 (n1, 2) Miami

Fariss, Gladys Gale A 17 (n1, 2)	Shawnee
Fauble, Laura Mae A u 6 (ns)	Clinton
Felkar, William Earl A u 16 (n1, 2)	Ardmore
Field, Lee Clark E u 14 (n1, 2)	Sulphur
Fielding, Edgar Wayne A 109 (a, 1, 2)	Sulphur
Fields, Jesse A u 41 (1, 2)	Dewey
Fischer, Merrill A u (n1)	Oklahoma
Fisher, Pauline Eleanor A 17 (n1)	Norman
Fisher, Wilson Alvin L 14 (n1, 2)	Newkirk
Fleming, Flora Dorcas A u 9 (n1, 2); F u 9 (1, 2)	Norman
Fleming, Marquis Leroy A 102 (s, 2)	Hobart
Flick, Martha X (n1)	Oklahoma
Flitch, Audrey Lena A u 17 (n1, 2)	Ponca City
Flitch, Eva Barbara A 17 (n1, 2)	Ponca City
Flitch, Sylvia Martha A 17 (n1, 2)	Ponca City
Flitner, Mrs. Arthur F u group I (n2)	Noble
Flitner, Geraldine Agnes F u (n1)	Noble
Flitner, Howard Edward F u (n1, 2)	Noble
Flood, Eva Marie F u (1, 2)	Norman
Flood, Ray E 97 (1, 2)	Norman
Floyd, Anthony X [n 1, 2]	Ada
Forbes, Beulah Belle A 109 (1, 2)	Norman
Forbes, Margaret Maude F u (1)	Norman
Forbes, Minnie May G (s)	Norman
Forbes, Ola Alice F (1, 2)	Norman
Forbes, Berta F u (n 2)	Norman
Forrester, Walter Paul A u 15 (n 1, 2)	Stuart
Foster, Claude Clinton F 14 group I (n 1, 2)	Blackwell
Foster, Mary Katherine A u 17 (n 1, 2,)	Oklahoma
Foster, Rayburn L 13 (n 1, 2)	Helena
Foster, Ruth F u (n 1, 2)	Norman
Foth, Joseph Henry A 143 (s, a, 1, 2); G 14 (1, 2)	Gotebo
Frame, Billy A u (n1)	Ardmore
Franz, Theresa X (n1)	Anadarko
Frazier, Thomas Weston M 29 (n 1, 2)	Louisville, Miss.
Freeland, Eulala A 8 (ns)	Bristow
Freeman, Elvin Delph E 19 (n 1, 2)	Chandler
French, Barton Leo X (n 1, 2)	Ada
French, Velma X (n 1, 2)	Ada
Fritts, Thomas Albert A u 9 (ns, a)	Denton, Texas
Fritzson, Edith X (n 1)	Oklahoma
Frost, Reuel Bryan A u 13 (n 1, 2)	Norman
Fry, William X	Alma

Frye, Jesse Raymond L u (2)	Sallisaw
Fuqua, Nolen E 8 (n 1, 2)	Duncan
Furman, Henry Marshall A 78 (s, 1, 2)	Oklahoma
Gable, James Jackson M 3rd (1, 2)	Dawson, Tex.
Galbreath, Robert A 61 (1)	Tulsa
Garrett, Loy Daniel A u 17 (n 1, 2)	Spiro
Garrett, Thomas Buffington A (n 2)	Pryor
Garton, Fay Lester A 81 (n 1, 2)	Blackwell
Gartside, Eldric Thorpe A 16 (n 1, 2)	Oklahoma
Gastineau, Felix Thomas A u (n s)	Webb
Gayman, Mark Willis M 19 (n, 1, 2)	Chandler
Gentry, Joseph Malcolm A 56 (l, 2)	Pond Creek
George, Joseph Alonzo L 10 (n 1, 2)	Ada
Gethmann, Lillie X (n 1)	Oklahoma
Geyer, Edmond Bruce A 74 [s, a]	Norman
Geyer, Forest Park A u 45 [1, 2]	Norman
Gibbons, Margaret Charlotte F u group II [n 1, 2]	Purcell
Gibson, Malinda Blanche A17(n1,2);Fu group II(2)	Norman
Giddings, George Henry L 13 [n 1, 2]	Oklahoma
Gidney, John Maney L u 11 (n 1, 2)	Muskogee
Gifford, Ruth Anna A 105 (n 1, 2); F u group I (1, 2)	Enid
Gilbert, Warren John A 33 (1)	El Reno
Giles Ruby F u (n 1, 2)	Norman
Giles, Winona A u (n s)	McLoud
Gilkey, Mary Naomi A 46 [1, 2]	Norman
Gilkey, Rosalie A 17 (n 1, 2)	Norman
Gilmore, Henry Nathaniel P 49 [1, 2]	Orlando
Gimeno, Patricio F u (n 2)	Oklahoma
Gittinger, James Price F u [2]	Norman
Givens, Dorothy Gale A 17 (n 1, 2)	Shawnee
Glasco, Fred Harrison M 52 (n 1, 2)	Alto Pass, Ill.
Glass, Esther F u 4 group I (n 1,2); A u 4 (2)	McAlester
Glass, Thomas DeWitt P 17 (n 1, 2)	Norman
Glasscock, Lillian N (n 1, 2)	Oklahoma
Goe, William Emanuel A 108 [a, 1, 2]	Norman
Goldner, Abraham M 54 (n 1, 2)	New York City
Gooding, Lillian A 39 (n 1, 2)	Mangum
Goodman, Abram Robert M u 19 (n1, 2)	Austin, Texas
Goodnight, Belle X	Skiatook
Goodrich, Robert David A u 57 (1)	Norman
Goodspeed, Ada Louise G 15 (n1, 2)	Hennessey
Gordon, Joseph Cowan E 72 (1, 2)	Oklahoma
Gordon, Mary Amelia A 32 (n1, 2)	Kansas City, Mo.

Gorton, Clover Gladys A u 5 (ns)	Norman
Grady, Charles William A 48 (1, 2)	Wheatland
Graham, Margaret X (n1)	Charleston, S. C.
Graham, Roy Adellbert A 114 (1)	Gibbon
Graham, Stephen Harry M 3rd (1, 2)	Oklahoma
Graham. Thomas Edward E 17 (n1, 2)	Anadarko
Grant, George Owen L 36 (1, 2)	Stillwell
Graves, Edna A u 35 (1, 2)	Orlando
Graves, John X	Gracemont
Graves, Lloyd Milner A 121 (1, 2)	Orlando
Gray, Lillian X (n1)	Albia, Ia.
Green, Horace Jewel A (n 1)	Carroll, Ark.
Green, Joe Lee P u 5 (n 1)	Carroll, Ark.
Greenhouse, A. C. A 83 (s,1,2); M 19 (1,2); P 4 (1)	New York City
Greenwood, Lydia F u (n1)	Norman
Grider, Ethel Gertrude A u 52 (s)	Chandler
Griffin, Bennett A u 13 (n1, 2)	Norman
Griffin, Jeanette Eleanor A 85 (1, 2)	Watonga
Griffin, Troy Washington L 42 (1, 2)	Lexington
Griffin, Vera F u (ns, 1, 2)	Norman
Grimes, Herman Hale A 34 (2)	Prague
Grimes, Odus Earl L 40 (1, 2)	Miami
Grissom, Lillie Evelyn A 9 (s)	Snyder
Groves, Ethel Lucile A 17 (n1, 2)	Coalgate
Grube, Wesley A 48 (1, 2)	Broken Arrow
Guin, Joel A u 12 (n1)	Lexington
Gunter, Jeff West P 50 (1, 2)	Shamrock, Tex.
Gurward, Grace X	Altus
Guthrie, John Alexander M 24 (n1, 2)	Neosho, Mo.
Haage, Arthur Edmond A 93 (s, a)	Bartlett, Kan.
Hale, James Roddy A 106 (ns, a, 1, 2)	Norman
Hall, George Calhoun A u 8 (n2)	Randlett
Hall, George Washington E 18 (n1, 2)	Mangum
Halley, Harry Lee Stuart A 79 (a, 1, 2)	Antlers
Hammond, Edith Kate A 78 (a,1, 2)	Norman
Haney, Arthur M 4th (n1, 2)	Atkins, Ark.
Hanford, Eleanor F u 17 group II (1, 2)	Oklahoma
Hansen, Frederick Jacob L u 70 (1, 2)	Grandfield
Hardin, Clifford Wilson E 42 (n1, 2)	Oklahoma
Harff, John Raymond A 34 (2)	Atoka
Harley, John Thomas L 40 (1, 2)	Phillips
Harness, Mary G 3 (s)	Norman
Harper, Frank X	Porum

Harrell, Glenn Dale F u 7 group II (n1, 2)	Mercedes, Texas
Harrell, James Hobbard L u (n2)	Hobart
Harrell, Lowry Houston L 14 (1, 2); A 36 (1)	McAlester
Harrington, Irma Jane A 49 (s, 1, 2)	Norman
Harrington, Lenore A 49 (1, 2)	Norman
Harris, Annie Mabel A u 5 (1, 2)	Moore
Harris, Floyd L u 30 (1, 2)	Oklahoma
Harris, George Gano M 53 (1, 2)	Amarillo, Texas
Harris, John Franklin G 21 (s)	Norman
Harris, Marshall L u 1 (n1); A u (2)	Oklahoma
Harris, Mary Robey A 124 (s)	Norman
Harris, Sue Ella N (2)	Oklahoma
Harrison, Izola F u 16 group I (n1, 2)	Rosedale
Harrison, Mitchell L 13 (n 1, 2)	Warner
Haseman, Bertha Anne A 124 (s)	Linton, Ind.
Hassenfratz, Lillian Charlotte X (n 1, 2)	Ada
Hastings, Vesta F u (n 1, 2)	Oklahoma
Hatcher, Akard P (n 2)	Norman
Hatcher, Eula May A 52 (1, 2)	Norman
Hatcher, James Fulton A 124 (s)	Frisco
Hatchett, Louise French A 110 (1, 2); F u (2)	El Reno
Haverstock, Vida Marion F 28 (1)	Wellston
Hawkins, Ernest Loyd P 49 (1, 2)	Headrick
Hays, Charles Roscoe P 12 (n 1, 2)	McLoud
Hayes, Ophelia F u 10 (n 1)	Cleveland
Haynes, Charles M u 3rd (n 1, 2)	Topeka, Kansas
Hays, Powell Lambert M 4th (1, 2)	Frederick
Hazeltine, Roy A 76 (2)	Norman
Heard, Elmer A 17 (n 1, 2)	Weleetka
Heath, Louise Read A u (n s)	Topeka, Kansas
Heller, Gilbert Nelson E 18 (n 1, 2)	Kiefer
Helmick, John A u (n, 2)	Wakita
Helmick, Walter Glenn A 112 (1, 2, a)	Wakita
Helms, Stokely Braxton P 17 (n 1, 2)	Ft. Towson
Hendon, Bryan A u 15 (n 1, 2)	Earlsboro
Hendon, Claude L u 12 (n 1, 2)	Earlsboro
Hendon, Ernest L 45 (1, 2)	Ardmore
Hendon, Randall Robert L 38 (1, 2); A 5 (s)	Earlsboro
Henley, Emmett Allen L 40 (1, 2)	Bluejacket
Herring, Will Clarence A 85 (2)	Caddo
Herrin, S. C. X	Meeker
Hetherington, William Leslie A u (n 1)	Norman
Hibbard, Lloyd James E 127 (1, 2)	Snyder

Hickman, Cecil Rogers L 14 (n 1, 2)	Altus
Hickman, Earl L u 8 (n 1, 2)	Spiro
Hicks, Pearl Olivia A u 25 (s)	Shawnee
Higgins, Cora Elizabeth F g (2)	Norman
High, Charles Leslie L 8 (n 1, 2)	Cushing
Highley, Thomas Hiatt E u 43 (1)	Oklahoma
Hightower, Jewel Neita N (n s, 2)	Oklahoma
Hill, George Robert A 124 (s)	Vinita
Hill, James Julian A 95 (a 1, 2)	Vinita
Hilsmeyer, Gladys Marie A 17 (n 1, 2)	Weleetka
Hines, Leland Stanford A u 17 (n 1, 2)	Sallisaw
Hirschi, Barbara Elma A 78 (1, 2); F u (1, 2)	Iowa Park, Tex.
Hirshfield, Albert Clifford A 122 (s, 1, 2)	Norman
Hoar, Benjamin Jesse A u 9 (n s)	Garber
Hoar, Ida Mary A u 5 (n s)	Garber
Hocker, Reginald Nichols L 13 (1, 2); G (2)	Purcell
Hodgson, Sam Holt A 9 (n 1, 2)	Tampico, Mexico
Hoke, George Albert L 48 (1, 2)	Quay
Holden, Cyril A u 17 (n 1, 2)	Oklahoma
Holland, Hattie A 20 (1, 2)	Chickasha
Holley, Elgar Dowess A 91 (1, 2); L 13 (1, 2)	Stigler
Holman, James Bryant M u 40 (1, 2)	Norman
Holsted, Dr. A. B. M u (n 1, 2)	Leslie, Ark.
Holt, Howard Judson A 91 (ns, 1, 2)	Ottawa, Kansas
Holtzschue, Helen Louise A 107 (s, 1, 2); F (1)	Oklahoma
Holzapfel, Ruth Adah X (n 1, 2)	Oklahoma
Hopper, Brownlow X (n1)	Hays City, Kansas
Horner, Hesse A u (n s)	Allen
Hoskins, Louis Harley A u 90 (s, a, 1, 2)	Okmulgee
Hott, Oliver James E u 52 (1, 2)	Wakita
Hott, Sabert Alfred E 134 (1, 2); A 115 (2)	Wakita
Hott, Willis Monroe E u 37 (1, 2)	Wakita
Houk, Joseph Dawson A 108 (a, 1, 2); L 13 (1, 2)	Isabella
Houston, Abner Moore E u (n 2)	Norman
Howard, Merle Quest M 52 (1, 2)	Oklahoma
Howarth, Myrtle Bell F u group I (ns, 1, 2)	Los Angeles, Cal.
Howe, Frank George L 40 (1, 2)	Norman
Howell, Charles Pixley A u 9 (na,s); X	Roosevelt
Howell, Ernest Leland A u 9 (na,s)	Ft. Cobb
Howell, William Alvin A u 56 (1, 2)	Collinsville
Hron, Ralph Preston G 25 (n1, 2); P (1, 2)	Guthrie
Huddleston, F. H. X	Weatherford
Huffaker, Mary A u 10 (ns, a)	Edmond

Huffman, Sherman Albert A 63 (a, s, 1, 2)	Wellston
Hughes, Bess F g (1, 2)	Sapulpa
Hughes, Carl Jennings L 66 (1, 2)	Sapulpa
Hughes, Russel Ward A u 14 (s)	Henryetta
Hull, Lee P 56 (1, 2); A 8 (s)	Norman
Humphreys, Leon A u 5 (ns); E u 21 (1, 2)	Lone Wolf
Hungate, Loane A u 9 (ns)	Hammond
Hunter, Thomas E (n2)	Broken Arrow
Huntington, Richard Lee A 17 (n1, 2); F u (1)	El Reno
Hursh, Harry George A u 8 (ns)	Watonga
Hurst, Beulah Josephine A 121 (a, 1, 2)	Pawnee
Hurst, Louis Glenn A 16 (n1, 2)	Chandler
Huston, Henry E. M 19 (n1, 2)	Aline
Hutchins, C. W. X	Davis
Hyde, Clarence Edgar A 91 (1, 2)	Konawa
Hyde, Myrtle Marie A 77 (n2)	Tulsa
Hyde, Sadie Mozell A u 8 (ns)	Norman
Imel, Arthur Blaine A 108 (ns, 1, 2)	Ponca City
Impson, Hiram A 76 (1, 2, a)	Bokchito
Inze, Amon F u (n2)	Norman
Irvine, Ernest G [n1, 2]	Norman
Irvine, Georgia Daniel F u (n2)	Norman
Irwin, Francis Leon M 25 (1)	Kaw City
Isle, Audrey Pearl A 99 (ns, 1, 2)	Edmond
Isle, Walter Whitfield A u 8 (a,s)	Pauls Valley
Ives, Eva Lovina A 77 (1, 2)	Avery
Ivy, Harley James A 13 (n1, 2)	Hastings
Jackson, Anne A (n2); F u group II (2)	Muskogee
Jackson, Robert Earl L 13 (1, 2)	Muskogee
Jacobs, John Clark A u 64 (1, 2)	Mangum
Jacobs, Theodore X	Boley
Jarboe, Alva Vance A 17 (n1, 2)	Altus
Jennings, George Henry L 14 (n 1, 2); A (2)	Kiefer
Jennings, Grace Gertrude A u 9 (s)	Norman
Johnson, Alice Rae F u 12 group II (n1, 2)	Oklahoma
Johnson, Arline F u group I (s, 1, 2)	Norman
Johnson, Claude Lowe P 12 (n1, 2)	Tonkawa
Johnson, Clyde L 1 (n1)	Comanche
Johnson, Fletcher Marvin L (n2)	Birmingham, Ala.
Johnson, Foster Frion E 18 (n1, 2)	Mangum
Johnson, Mrs. Frank X (n2)	Oklahoma
Johnson, Froma Adelaide F u (2)	Norman
Johnson, Hazel Meredith A 51 (1, 2)	Oklahoma

Johnson, Henry Lee M 31 (1, 2); A 76 (s, 1, 2)	Hollis
Johnson, Juanita F u (n1)	Collins, Mo.
Johnson, Lucille A 53 (1, 2)	Pawhuska
Johnson, Marie N (n2)	Oklahoma
Johnson, Mary Emily A u 9 (ns)	Neosho, Mo.
Johnson, Montford Tilford A 17 (n1, 2)	Norman
Johnson, Neil Robert A 83 (1, 2)	Norman
Jonas, Adore Lewis L u (n2)	Tulsa
Jones, Albert X	Coleman
Jones, Benjamin George M 19 (n1, 2)	Foss
Jones, Bernice A 8 (n 1, 2)	Norman
Jones, Dudley Harwood E u (n 1, 2)	Shawnee
Jones, Ella Vera A 50 (s, 1, 2)	Wynnewood
Jones, Ester Lee M u 3rd (1, 2)	Monmouth, Ill.
Jones, George X (n1)	Oklahoma
Jones, Harry A 37 (n 1, 2)	Ada
Jones, James Lee A 24 (1)	Kingston
Jones, Margaret Nevada N (s, l, 2)	Oklahoma
Judy, William Blaine A 66 (1, 2); M 19 (1, 2)	Pawnee
Kahn, Bernard Maurice X (n1)	Oklahoma
Karcher, Clarence John E 54 (1, 2)	Hennessey
Keenan, Robert Bruce A 118 (s); X	Tahlequah
Keiger, Nina Estelle G 3 (s)	Norman
Keller, Florence A 17 (n 1, 2)	Thomas
Keller, Grape Frank A 17 (n 2); F u group I (2)	Oklahoma
Kent, Maude A u (ns); F u (2)	Norman
Kepner, Sewall P u 16 (n 1, 2)	Oklahoma
Kerker, Joseph Earl L u (n 1)	Chicago, Ill.
Kernodle, Stratton Ellington M 19 (n 1, 2)	Skiatook
Killion, Lois Jacynth G (s)	El Reno
Kimberling, Don William A u (ns)	Norman
Kimes, Franklin G 14 (n 1, 2)	Muskogee
Kimes, Myrtle F u 4 (n 1, 2)	Muskogee
Kinchen, Oscar Arvle A 60 (2)	Erick
King, Garland Lycurgus A 74 (s)	Oolagah
Kinnebrew, Jackson Alvin X	Pauls Valley
Kirby, Grady A 86 (s, 1, 2)	Scottsboro, Ala.
Kite, William Casper A 50 (n 2)	Perry
Klass, John Paul E 55 (1, 2)	Chelsea
Klein, Bessie Louise A 108 (1, 2)	Oklahoma
Klinglesmith, Ruth Elizabeth A 57 (s, 1, 2)	Norman
Klugas, Alice Margaret A u (ns)	Norman
Knight, Kate Kizer X (n 1, 2)	Ada

Knudson, Virgil L (n1); F 13 group I (1, 2) Porum
Kraft, William E u 2 (n 1, 2) Oklahoma
Krag, Alma Katherine A u (n s) Bethany
Kruse, Alma Katherine A u 9 (ns) Neosho, Mo.
Laidig, Thomas Frank M 4th (n 1, 2) Topeka, Kansas
Lambert, Emma Pearl A 111 (s); X McLoud
Lambeth, Ada Lida A u (n s) Apache
Lane, June Harper G (ns) Norman
Langston, Wann M 61 (1, 2); A 44 (s) Francisco, Ala.
Lasley, Carrie X (n 1) Oklahoma
Lawhead, Josephine A 83 (1, 2) Mountain View
Laws, Silas Irvin A u (ns) Otterville, Mo.
Layman, Pauline Cudda A 78 (n 1, 2); F (2) Tulsa
Leach, Eunice Paige A 50 (1, 2) Carbondale, Kans.
Leach, Nina Naomi F u group I (s, 1, 2) Norman
Leach, Olive Louise N (s 1, 2) Oklahoma
Leach, William Tecumseh G 24 (s, a, 2) Norman
Ledbetter, Gene Paul L 71 (1, 2) Oklahoma
Lee, Eva F g (l) Norman
Lee, Will A 17 (n1) Gage
Leek, Margaret X (n 1) Oklahoma
Le Force, Ceph Wilson A u 15 (n 1, 2); F (1) Jefferson
Lehman, Trevor X Oklahoma
Lemon, Frank Clinton E 51 (1, 2) Hennessey
Levy, Benjamin George M 4th [n 1, 2] Midway, Mass.
Levy, Morris A u 3 (ns] Norman
Lewis, Roy St. L u 45 (1, 2) Sharon, Pa.
Lewis, Roy Van L 34 (1) Norman
Lewis, Winnie X Marlow
Lhevine, Morris M 19 [n 1, 2]; F u group I [2] Poltava, Russia
Liddell, Haney Lu (n 2); A u (2) Gainesville, Texas
Lindsay, Dora F u (n 1, 2) Norman
Lindsay, Ruby May F u (s) Norman
Link, Della Celeste F 58 (s) Norman
Link, Louise F u (n 1, 2) Norman
Lively, Prentice A 59 (n 1, 2) Blackwell
Livergood, Homer E 111 (1, 2) Newkirk
Logan, Clarence Ziegelmeier A 17 (n 1, 2) Shawnee
Logan, David Mathhew A 49 (n1); E 33 (2) Tahlequah
Logan, Leonard Marion A 110 (n 1, 2) Tahlequah
Long, Sallie A 82 (1, 2) Wagoner
Loomis, Harve Ezra A 79 (s) Norman
Loucks, Clifford A 82 (n 1, 2); F u (1) Walters

Lourie, Mark M 19 (n1, 2)	New York, City
Love, George Criner L u (n1)	Purcel
Love, Joe Criner A u 41 (1, 2)	Purcell
Lovell, Cora Alice N (1, 2)	Oklahoma
Lowe, Zearl Eaton A (n2)	Mangum
Lowry, Richard Clyde A 59 (1, 2); M 56 (1, 2)	Muskogee
Lowry, Thomas Claude A 61 (1,2); M 56 (1, 2)	Muskogee
Lyon, Lula Emmette F u (n2)	Norman
Mackey, Clifton Marion E 35 (n 1, 2)	Durant
MacTaggart, Marian F 49 group IV (1,2); A 49 (s)	Oklahoma
Maguire, Mary Katherine F u (n2)	Norman
Malarky, Wanda Alene A 79(n1,2); F u group I (1,2)	Cleveland
Mallory, Jasper Newton A u 56 (a, s)	Ponder, Tex.
Maloy, Addie A 110 (s 1, 2)	Norman
Maloy, Refus Ellis E 18 (n 1, 2)	Norman
Mann, Adah Brice N (n s, 2)	Oklahoma
Mann, George Leftrige E u (n, 2)	Holdenville
March, Robert Lee A 4 (n1, 2)	Duncan
Markham, David Hogan A 106 (1, 2)	Tahlequah
Maryberry, Thomas X	Tribbey
Marlow, A. L. X	Blackburn
Marrs, James Wyatt A 16 (n 1, 2)	Chickasha
Marsh, Robert Comer A (n1)	Madill
Marshall, Albert M 4th (n 1, 2)	Topeka, Kansas
Marshall, Yetta Faye A u 13 (n1); Fu group I(2)	Oklahoma
Martin, Carrie Ames F 16 group II (1, 2)	Norman
Martin, Chesley Marion M 3rd (n 1, 2)	Anderson, S. C.
Martin, George Dale E u 49 (1)	Shawnee
Martin, Harres Crawford X (n, 1)	Oklahoma
Martin, John Alfred M u 4th (1)	Oklahoma
Martin, Lillian True A u 9 (ns)	Norman
Martin, Sophia Esther A 18 (1, 2)	Norman
Martin, William Allen M 3rd (1, 2)	Valliant
Mauk, Jean Marie A 23 (ns,1,2); X	Oklahoma
Mavity, Ralph Page M 3rd (1, 2)	Tonkawa
Maxwell, Harold Keys A u (n1)	Bomar
Mays, Eleanor F u (n1, 2)	Norman
McAlib, Basil P 16 (n1, 2)	Heavner
McCain, Barnes A 98 (1, 2); L 13 (1, 2)	Quinton
McCain, Byrd A u 17 (n 1, 2); F u (2)	Quinton
McCalib, D. Preston L u 13 (n1, 2)	Durant
McCall, Laura F u (n, 2)	Norman
McCarrell, Ed A u 3 (n s)	Edmond

McCasland, Hugh E u 9 (n, l, 2)	Duncan
McCasland, Naomi F u group III (n 1, 2)	Duncan
McCasland, Thomas Howard A 53 (1, 2)	Duncan
McClellan, Mildred A u 86 (1, 2)	Norman
McClure, Florence Elizabeth A 84 (1,2);Fu group I(1,2)	Sulphur
McClure, Margaret Maxine F u group I (s, 2)	Norman
McClure, Nell May A 45 (1, 2); F group II (s, 2)	Cushing
McConnell, Archie Bernice M 3rd (n,1,2)	Falls Creek, Pa.
McCullough, Archibald Mason A u 59 (s, 1, 2)	Norman
McDougal, Mary Carmack A 79 (a)	Sapulpa
McFarland, Alice X (n)	Oklahoma
McFerron, Nellie Jane A 84 (1,2); F group I (1, 2)	Norman
McGaha, Charles Peevey A 17 (n 1, 2)	Madill
McGinley, Nellie May F u group I (2)	Norman
McGuire, Bernice Clara A u 23 (s)	Edmond
McGuire, Bobbie A u 12 (n 1, 2)	Waurika
McGuire, Maude A u 3 (s)	Norman
McGuire, Naomi Belle F u 11 group I (n 1, 2)	Pawnee
McGuire, Willie F u (s)	Norman
McKay, Corrine X (n2)	Oklahoma
McKeever, Bernice Elvira A 9 (n2)	Oklahoma
McKinney, Clarence E 22 (n 1, 2)	Mangum
McKinnon, Alexander E u 84 (l, 2)	McAlester
McLauchlin, Anna Elizabeth A 124 (s)	Edmond
McLaury, Finley L 42 (1, 2)	Snyder
McLennan, Gladys F u (n 1, 2)	Moore
McMahon, Eugene A 74 (1, 2)	Lawton
McMakin, Florence Ila F g (1, 2)	Norman
McMillan, Cecille Gertrude A 39 (1, 2)	Madill
McMillan, Elizabeth A u 75 (1, 2)	Norman
McMillan, Ethel X (n1)	Dover, Ky.
McMillan, Mary Robinson A 12 (n 1, 2)	Norman
McMurtrey, Marvin Spurgeon A u 9 (ns, a)	Alva
McNeese, Charles Harold A 17 (n l, 2)	Oklahoma
McNeese, Florette G 9 (ns)	Oklahoma
McNeley, W. P. L 14 (n 1, 2)	Durant
McReynolds, Finis Ewing G (s)	Stillwater
Meacham, Edgar A 108 (a, 1, 2)	Clinton
Meacham, Ray Ferrell F 67 group I (1, 2)	Clinton
Meador, Girdie Emery A u 57 (s)	Norman
Melton, William X (n 1, 2)	Ada
Memminger, Charles A 113 (1, 2); L 13 (1)	Atoka
Merkle, Bess A 107 (1, 2)	Norman

Meyer, Clara A 119 (1, 2)	Tecumsh
Meyer, Clifford Clinton A u 10 (ns, 1, 2)	Norman
Meyer, Dixie Edna F u group II (s, 1, 2)	Norman
Meyer, Joe L 14 (n 1, 2); F u (2)	Hot Springs, Ark.
Meyer, Milton Fredrick L 40 (1, 2)	Norman
Michaelson, Margaret X (n1)	Oklahoma
Middlecoff, Leota F u (n2)	Oklahoma
Miles, Walter Howard A 38 (1, 2)	Oklahoma
Miller, Fred Lamont P 49 (1, 2)	Wakita
Miller, Mallie Jo A u 9 (n s); X	Headrick
Miller, Mary Emelyn F u 32 group III (1, 2)	Norman
Miller, Richard Keith A 77 (1, 2)	Norman
Mills, Paul Roger P 68 (1, 2)	Tulsa
Minton, Harvey A 50 (n 2)	Enid
Mitchell, Grant A u 6 (ns)	Carney
Mitchell, Greta Mabel A u 5 (s)	Norman
Mitchell, John Blake A 85 (s, a)	Blanchard
Mitchell, Laura N (s, 1, 2)	Oklahoma
Mitchell, Lela A u 9 (ns, a)	Edmond
Mitchell, Lulu Grace N (s, l, 2)	Oklahoma
Mitchell, Roy Clyde E 101 (a 1, 2)	Norman
Moffett, Leora F u (s)	Norman
Moffett, Verna F u group I (ns, 1, 2)	Norman
Molloy, Milton Blackburn X (n 1, 2)	Ada
Monical, Delfred John A u (n s, 1)	Norman
Monnet, Eugene Orton A 46 (1, 2)	Norman
Monnet, Florence Eleanore F u (1, 2)	Norman
Montgomery, Arthur Emerson L u 42 (1, 2)	El Reno
Montgomery, Effie Irene A 91 (s, 1, 2)	Norman
Montgomery Homer E u 4 (n 1, 2)	Muskogee
Montgomery, Maude F u (n 1)	Norman
Montgomery, Myrtle Winifred G 28 (s)	Norman
Montgomery, William Ewell P 18 (1, 2)	Oklahoma
Moore, Albert Reed A 60 (1, 2)	Oklahoma
Moore, Louie Aline A 125 (s)	Arapaho
Moore, Martha A u 9 (ns)	Goltry
Morgan, Alice Marie F u (n2)	Norman
Morgan, Clara Belle F u group III (2)	Norman
Morgan, George Dillon A 57 (s 1, 2)	Lawton
Morgan, Helen Fay F u 6 (2)	Norman
Morris, Glen Oliver A u 16 (s); E u (1); Lu 34 (1,2)	Norman
Morris, Lewis Reavely A 85 (1, 2)	Norman
Morris, Mary X (n, 1)	Oklahoma

Morris, Maud Ethel A 60 (n 1, 2) Orlando
Morris, Ruth Simpson A 60 (1, 2) Norman
Morrison, Ethel A 17 (n 1, 2); F (1) McAlester
Morrow, Walter Alexander A u 20 (n 1, 2) Norman
Mosely, Ray Ruel M 19 (n1, 2); A (s) Trousdale
Mullins, William Kinion A u (n2) Norman
Mumma, James Elmer A u 6 (ns) Orion, Ill.
Munch, Perrill Elizabeth A 115 (1, 2) Hennessey
Mundy, Doris Geneva F g (1, 2); A u 61 (1, 2) Wanette
Murphy, Alice F u 13 (1) Frankfort
Murphy, Cecelia Gertrude F 53 (1) Frankfort
Mutsaers, Bernard X (n 1, 2) Oklahoma
Nairn, Etta F u 18 (1, 2) Nowata
Nash, Lady Olive A u 9 (n, s) Edmond
Nash, Mell Achilles A u 9 (ns, a) Noble
Neal, John Robert M 4th (1, 2) Comanche, Texas
Neff, Samuel O'Connor L 31 (1, 2) Oklahoma
Nelson, Edwin Todd A 17 (n 1, 2) Oklahoma
Neves, Helen A u (ns, 2); F u group I (2) Tulsa
Neves, Jane Ethel F u 33 (s) Tulsa
Newby, John Alexander E 53 (1, 2) Norman
Newell, Ruth Brannon F g group IV (1, 2) Norman
Newkirk, Lule X (n 1) Oklahoma
Newman, E. L. X Sulphur
Nicely, Pearl X (n 1, 2) Oklahoma
Nicholas, William E u 2 (n1); A u 1 (2) Nowata
Nichols, Clarence P 109 (1, 2) Anadarko
Nicholson, Carl Alvin P (n, 2) Fairview
Nickle, Charlie A u 4 (n 1, 2) Norman
Nix, Winfred Mabel F u (n1, 2); A 91 (1, 2) Mitchell, S. Dak.
Noble, Mable A u 8 (n s) Enid
Noel, May Belle A u 17 (n 1, 2) Jefferson
Norman, Crofford Wilson A 47 (1, 2) Randlett
North, Lola Wilda A 109 (n1,2); F u group II (2) Blackwell
North, Sidney Newton L 32 (1) Inola
Northcutt, Marion John A (n 1, 2) Mangum
Nugent, Goldwin M 4th (n 1, 2) Kansas City, Mo.
Oakes, George L 41 (1, 2) Grove
Oakes, Malcolm Christie E 90 (1, 2) Waurika
O'Connell, Henry X Oklahoma
Odell, Abbie Venice N (s, l, 2) Oklahoma
Oderman, Harry Stephen E 47 (1, 2) Oklahoma
Oliver, Bertha G 21 (s, 1, 2); F (1, 2) Norman

Oliver, Mayme A 109 (1, 2) Guthrie
Orr, Charles Laurence L 68 (1, 2) Roff
Orr, J. Fred A u 16 (n1, 2) Roff
Orr, John Roy A 21 (n1, 2); F (1, 2) Rosemond, Ill.
Ostenberg, Stella Cecelia A 51 (1, 2); F group II (1, 2) Claremore
Oster, Clifford Carl E u 57 (1, 2) Hobart
Osterhaus, Anna F u (n1, 2) Norman
Osterhaus, Katie Dorethea A 48 (1, 2) Norman
Ovtcharoff, Atanas Vangeloff A u (n2) Sirlen Grad, Bulgaria
Owen, Maud A 111 (n1,2) Clinton, Mo.
Ozias, Charles Ralph M 4th (n1, 2) Warrensburg, Mo.
Pack, Samuel X Oklahoma
Padgett, James Absalom G 14 (n1, 2) Old Fort, N. C.
Parker, Everett Cecil A 108 (a, 1, 2) Anadarko
Parker, Ira Tom M u (n1); P u 13 (1,2); F u g. II (2) Oklahoma
Parkhurst, Cecil Carroll L (n2) Norman
Parkhurst, Robert Moore L 41 (1, 2) Cherokee
Parks, Lela F u (n2) Walters
Parks, Ruth Ann F u 7 group III (n1, 2) Tahlequah
Parks, William Early A u (n1); P u 17 (1, 2) Tipton
Parmalee, Arthur Lee A u 8 (ns); X (1, 2) Capitol Hill
Parrott, LaRue A u (ns) Bristow
Parsons, Nellie Hunt A 16 (n1, 2); F (1, 2) Norman
Parton, Shelton Williams A u 3 (ns) Hollis
Patchell, Jewel A 24 (n1, 2); F u (2) Pauls Valley
Patrick, Harriet A 17 (n 1, 2); F u group I (2) Stroud
Patton, Esther G 6 (s) Norman
Patton, Paul Xerxes A u 5 (ns) Norman
Paullin, Louis L u 9 (n1) Durant
Paxton, Adelaide Frances F u (12) Norman
Payne, John Newton A 6 (n1) Tonkawa
Pearl, Maurice Orpheus Wood G (s) Enid
Pearl, Mussetta Markland A u 5 (s); L u 40 (1, 2) Enid
Pearson, Essie X (n1, 2) Reed
Peck, Mary Elizabeth A 54 (n2); F u group II (2) Enid
Pelphrey, Mary Aline A 28 (1, 2) Shawnee
Pembleton, William E 18 (n1, 2) Shawnee
Pendleton, Eva Marguerite F u group I (1, 2) Norman
Pendleton, John Freeman L 70 (1, 2) Talala
Pendleton, Lucile Marguerite F 19 group II (1, 2) Talala
Penn, Alice A u (s) Norman
Penn, Georgia Edna A u 15 (s) Norman
Perkins, Chester Henry M 15 (n1, 2) Temple

Perrine, Hilda Sweet F u group I (n2)	Norman
Peterson, Kenneth Berry L 40 (1)	Tahlequah
Petty, Curtis A u 47 (1, 2)	Noble
Petty, Earl E u 24 (1, 2)	Noble
Petty, Mary Elizabeth F u group II (n2)	Barnesville, Ohio
Phelps, Mrs. A. S. X (n1, 2)	Oklahoma
Phillips, Florence Elizabeth F u (n2)	Norman
Phillips, James Herbert E 17 (n1, 2)	Pauls Valley
Philips, Leon Chase L 13 (n1, 2); A 64 (2)	Arapaho
Phillips, Mary Lois A 80 (n1, 2); F (1)	Arapaho
Phillips, William Arthur E u (n1)	Norman
Phipps, Cora Etta N (s, 1, 2)	Oklahoma
Pickard, Ana P 79 (1, 2)	Norman
Pickard, Lelia A u 6 (s)	Norman
Pickerall, Lola Marie A u 8 (ns)	Edmond
Pickering, Jennie Fidelia A u (1)	Stillwater
Pigg, Albert E u (n2)	Boynton
Pinnick, Addie A u 60 (2)	Norman
Piper, Charles M 3rd (n 1, 2)	Cullman, Ala.
Pitchford, Harry L u (n1) .	Tahlequah
Pitts, Dona Marie A 43 (1, 2)	Norman
Pitts, Lee A u (n2)	Oklahoma
Pitts, Marvel Olive A 31 (s, 1, 2)	Norman
Platt, Robert Baxter E 14 (n1)	Frederick
Ponder, Charles Elmer A u 16 (1, 2)	Mangum
Porter, Raymond A 66 (a); X	Muskogee
Potts, Lida F u (n1)	Frederick
Potts, Minnie Eula A 13 (n1,2); F group 1 (1,2)	Frederick
Pownell, Admiral Munrow E 43 (1, 2)	Hennessey
Prentiss, Harley Merton M 13 (n 1, 2)	Bartlesville
Proffitt, Addie A u (n1, 2)	Norman
Pruet, Robert Ray A 94 (a, 1, 2); L (1); X	Norman
Pulley, Augusta Jane N (2)	Oklahoma
Purcell, Marcia F u group II (n 1, 2)	Lawton
Puterbaugh, Clara Savannah X (n 1, 2)	Hiran, Ark.
Pyle, Albert Forbes A 43 (1, 2)	Muskogee
Pyle, Helen A 110 (n l, 2)	Muskogee
Quaid, T. D. D X	Tishomingo
Quicksall, Carl A u 9 (n s)	Nowata
Rader, Jesse Lee G 38 (s)	Norman
Ramsey, Bertha Gladys A u (ns)	Norman
Ramsey, Robert M (n l)	Norman
Rathburn, Lewis Edmund A u 7 (ns)	Hooker

Ray, Colonel Scudder A u (ns)	Gould
Rea, William Robert A 110 (l, 2)	Canute
Reed, Edward Everett L u (n l)	Ada
Reed, Francis X	Pryor
Reed, Frank Fenton A 10 (1)	Norman
Reed, Frank A u 15 (l, 2)	Oklahoma
Reed, Freda A u 27 (1); F 22 group II (1, 2)	Oklahoma
Reed, Howard Leonard M 50 (n l, 2)	DuBois, Pa.
Reed Kathryn F u 10 group I (n 1, 2)	Ada
Reed, Mildred F u 1 (n 1, 2)	Ada
Reeds, Claude Edwin A 114 (s, a, l, 2)	Norman
Renick, Edna Maude A 5 (ns)	Clinton
Renshaw, David Ellery E 138 (l, 2)	Hennessey
Revell, Rachel F u (n 1, 2)	Guthrie Center, Ia.
Reynolds, Floyd Johnson A 13 (n 1, 2)	Norman
Reynolds, Kenneth Egbert E 62 (l, 2)	Weatherford
Reynolds, Norman Eben L u 70 (1, 2); A u 8 (s)	Muskogee
Reynolds, Roy Alvin L u 14 (n 1, 2); A (2)	Norman
Reynolds, S. Woodson M 4th (n 1, 2)	St. Joseph, Mo.
Rhoades, Nina A u (n s)	Norman
Rice, Leslie X	McAlester
Rice, Nora N (s l, 2)	Oklahoma
Rice, Olivia A u 57 (s, a)	Walnut Grove, Mo.
Richards, Arthur Lee A 124 (s)	Denton, Tex.
Richards, Homer E 18 (n 1, 2)	Cleveland
Richards, Laura Alexander A 81 (s)	Denton, Tex.
Richardson, Ivin A 17 (n 1, 2); F u (1)	Union City
Rickard, Beulah A 79 (n 1, 2)	Edmond
Rider, Charles Robert A 17 (n 1, 2)	Madill
Riley, Cathrine X (n 1, 2)	Oklahoma
Riley, Charles English P 36 (l)	Erick
Riley, Fletcher Settle A 54 (s, l, 2)	Lawton
Riley, Mrs. Joseph Leslie A u (n2)	Ghent, Ky.
Rittenhouse, Olive X (n1, 2)	Oklahoma
Roark, George A 17 (n1, 2)	Newton, Kansas
Robbins, Frank L 13 (n1, 2)	Shamrock, Texas
Roberts, Sidney Arthur A 11 (1); L 54 (1)	Chelsea
Robertson, Arthur L 11 (n1, 2)	Hulbert
Robey, Annie Laurie A 90 (s)	Davidson
Robey, Grace Lucile A 78 (1, 2)	Davidson
Robey, Roberta A 110 (s, 1, 2); F u (1)	Davidson
Robinson, Frank M 4th (n1, 2)	Capron
Robinson, Theron Wheeler A 49 (1, 2)	Britton

Robinson, Thomas Walter X (n1, 2)	Ada
Rock, John Lestrange A 125 (l, 2)	Lexington
Rodman, Ruth Atkinson A u 6 (ns)	Oklahoma
Rogers, Alma X	Bonham, Texas
Rogers, Charley Elkins A 116 (a, 1, 2)	Ozark, Mo.
Rogers, John Powell L 69 (1, 2)	Tulsa
Rogers, Mabel X (n2)	Oklahoma
Rogers, Neva A u 15 (n l, 2); F u group I (2)	Norman
Rogers, Sherman M 7 (1, 2)	Springfield, Mo.
Rohrer, Katherine A u 18 (s)	McAlester
Rollin, Oliver Grady L 12 (n1, 2)	Madill
Rose, Lynn Talmage A u 5 (n1)	Chickasha
Rosertein, Jacob X (n1)	Oklahoma
Rowe, Ural Alps L 14 (1, 2); A 20 (1)	Blair
Rucker, Robert Harvey A u (ns, 1)	Norman
Runyan, Foy Anne A u 15 (s)	Norman
Russell, Christy L 13 (n1, 2)	Warner
Russell, Edith X (n1, 2)	Oklahoma
Russell, Eula A 48 (1, 2)	McAlester
Russell, Luther A u 17 (n1, 2)	McLoud
Rutherford, Joel Arrington L 40 (1)	Wagoner
Sadler, Lena Hylinda A u 8 (s)	Norman
Salman, Phinehas M 19 (n1, 2)	Portsmouth, Va.
Salter, Lewis Spencer A u 79 (2); F g (1, 2)	Carmen
Sanders, Jesse Thomas A 83 (a, 1, 2)	Snyder
Sapper, Herbert Victor Louis A 121 (1, 2)	Hartford, Conn.
Sawyer, Mary A 98 (a, 1, 2)	Norman
Sawyer, Roger William A 74 (1, 2)	Norman
Scales, Opal Amanda A u 31 (s)	Calvin
Scales, Pearl Ruth A u 33 (s)	Calvin
Schiele, Bertha Louise F u 11 group II (s, l, 2)	Oklahoma
Schimmels, Thoma Lawrence A 3 (ns): P 20 (1, 2)	El Reno
Schmidt, George Frederick William A u 85 (s); F g (1)	Lone Wolf
Schoggen, Walter Bralley A u 17 (n1, 2); F u g I (1, 2)	Prague
Scott, Harry Murphy A 133 (s, 1)	Blackwell
Scruggs, Juanita Gladys A u 6 (s); F u (1, 2)	Norman
Seaman, Margaret Mary N (n1, 2)	Oklahoma
Searle, Harry Eugene P 50 (1, 2)	Norman
Sellers, Avis A (ns)	Norman
Sewell, Leslie Eugene A u (ns)	Norman
Shallenberger, Garvin Dennis A u 9 (ns)	Ohemah
Shapard, Charles Bell A 85 (1, 2); F u (2)	Pawnee
Sharp, Eugene Grant A 13 (n 1, 2)	Guthrie

Shapp, John Fletcher A 48 (1, 2)	Oklahoma
Shaughnessy, Genevieve F u group III (n1)	El Reno
Shaw, Annie May A 76 (s, a)	Stillwater
Shead, Arthur Curtis A 32 (1, 2)	Oklahoma
Shead, Ralph Brownell F u 59 [1, 2]	Norman
Shear, Roy P 45 [1, 2]	Newkirk
Sheldon, Seward Ross A 80 (a 1, 2)	Cherokee
Sheppard, Lottie X (n 1, 2)	Oklahoma
Shepler, Fred Butler A 76 (1, 2)	Lawton
Sheppard, Earl Amond A (n 1)	Cordell
Sheppard, Hubert A u 60 (1, 2)	Cordell
Sherman, Catharine A 111 (l, 2)	Alva
Sherrow, Fred William L u 13 (n 1, 2)	Springfield, Mo.
Shipp, Julius Wilson X (n 1, 2)	Ada
Shives, Mattie F u (n2)	Norman
Shoemake, Beatrice Lee N (ns, l, 2)	Oklahoma
Short, Lilly Jane X (n 1, 2)	Oklahoma
Shuff, Harvey Oliver A 93 (a)	Piedmont
Shultz, Maude F u 12 (n 1, 2)	Mulhall
Shultz, Will Geoffrey A u 16 (n 1, 2)	Lahoma
Shumaker, E. Lee E u (n2)	Zena, Iowa
Shumate, Maud Chenault A u 12 (s)	Fairview
Shumate, Wade Hampton A 124 (s, 1)	Fairview
Shutts, Katherine G (n2)	Guthrie
Simpson, Charmeon Elizabeth A 108 (n1,2)	Norman
Sims, George Washington A u 6 (ns)	Seminole
Six, Ray A u 3 (ns)	Norman
Skinner, Glenn Charles E 13 (n1,2)	Weleetka
Skinner, Howard Burris A 53 (1, 2)	Weleetka
Skow, Emma Elnora Maria X (n 1)	New York City
Sledge, John Byron A 32 (n2)	Ada
Sloan, George Fleming A 17 (n1, 2)	Oklahoma
Smiser, Raybourn Harmon L u 39 (l, 2)	Oklahoma
Smith, Blanche Mabel F u (s)	Norman
Smith, Edna Florence A 110 (s, 2); X (1, 2)	Moore
Smith, Edward Wright A u (ns, 2)	Norman
Smith, Ethel Maude F 14 group III (n 1, 2)	Guthrie
Smith, Frank Kye A 70 (s)	Kiowa
Smith, Georgia Mae X (n1)	Newkirk
Smith, Leah Belle A u 40 (s)	Norman
Smith, Melba F u group I (1, 2)	Norman
Smith, Micah Pearce A 86 (n 1, 2)	Chickasha
Smith, Roy A u 3 (ns); L u 2 (1, 2)	Erick

Smith, Ruth Esther A 17 (n 1, 2) Norman
Smith, Sarah Pearl F 7 group II (n 1, 2) Rush Springs
Smith, Talmage Austin A 62 [s] Kiowa
Smith, Wilson Evan E u (nl) Moore
Sneed, Earl Everett A 124 (s) Tulsa
Sneed, Lee Vincent A u 30 [s l, 2] Oklahoma
Snell, Bessie A 113 (2) Purcell
Snell, Clark Earl A 94 (n2) Chicago, Ill.
Snider, Fred Morgan A (n1) Pauls Valley
Snider, Lafayette Benjamin A 121(1,2);G 12(1,2) Weatherford
Snider, Lucile A 80 (n l, 2); F group III (1, 2) Weatherford
Snider, Thomas Benton P u 13 (n1) Chelsea
Sonnenschein, Louis X (n 1, 2) Oklahoma
Spangler, Ralph Stonehouse A 17 (n l, 2); F u (1) Frederick
Spaulding, Marjorie F u (n1,2) Oklahoma
Speakman, Howard L u 40 (1, 2) Wellston
Spears, Roy Alonzo A 160 (s, 1, 2); L 12 (1) Granite
Spencer, Mary Evelyn A u (ns) Norman
Spraggins, Edna P u 23 (1) Davidson
Staats, Joe P u 10 (n 1, 2) Strafford
Stacy, Dean Moore A 12 (a, s, 1, 2) Chickasha
Staley, Raymond X (n 1, 2) Oklahoma
St. Clair, Hope X (n 1) Oklahoma
Steele, Charles Bridgeman A 98(s,1,2,a); L 13(1,2) Keller
Steele, Julia A u 43 (1, 2) Keller
Steele, Lee A u 35 (1, 2) Keller
Steen, Carl M 4th [1, 2] Floydada, Texas
Stephens, Bettie A 113 [s, 1, 2] Norman
Stephens, Etta A u 12 [s] Norman
Stephens, Lela A u 5 [ns] Norman
Stephens, Nina A 115 [s, 1, 2] Norman
Stephens, Sallie N (ns, 1, 2) Norman
Stephenson, Charles X (n1) Oklahoma
Stephenson, S. Hoke L u (n1) Hugo
Stevenson, Alfred L u 42 (1, 2); A 7 (1) Stratford
Stewart, Curtis A u 12 (n1, 2) Oklahoma
Stewart, Robert Augustus M [n1]; G 13 [1, 2] Guthrie
Stigler, Hettie Lee F u group II [n2] Nowata
Stigler, William Grady A 98 [l, 2]; L 3 [1, 2] Stigler
Stiles, Grace Mara F 39 group III (l, 2) Edmond
Stiles, Jessie L 12 [n1, 2] Wetumka
Stinson, Robert Wilcox E 115 (1, 2) Mountain View
Stokes, Nola F u group I (n1) Norman

Stone, Ervin Douglas E u 8 (n1, 2)	Oklahoma
Strader, Ernest M 14 (n1, 2)	Yukon
Strahan, Hubert P 17 (n1, 2)	Heavner
Stratton, Hazel A u 13 [s]	Erick
Strosler, Virginia Catherine A u 4 [n1, 2]	Oklahoma
Stroube, Henry Reynaud E 18 [n1, 2]	Mangum
Sturgeon, Stephen Hume E 14 (n1, 2)	Oklahoma
Sullivan, Cornelia X (n)	Oklahoma
Sullivan, Paul Dodson A u 51 [1, 2]	Lone Grove
Sullivan, Ruth A u 47 [1, 2]	Lone Grove
Sullivant, Jessie Ruby F u [2]	Norman
Sullivant, Roy A 13 (n1, 2)	Norman
Suman, Edwin Elisha M u 26 [1]	Ponca City
Sumners, Mary Luella F [n1]	Henrietta
Sutherland, Eugene Laird P 45 (1, 2)	Lawton
Swan, Bertie Gene A (n1)	Oklahoma
Swartout, William Roeloff X (n1, 2)	Oklahoma
Synnott, Mary Dorothy A u 9 (ns)	Shawnee
Taft, Aletha Barr X (n1)	Oklahoma
Tague, John A 36 (n1, 2)	Lawton
Taliaferro, John Ambrose A 34 (1, 2)	Madill
Tant, Lenna A u (n1)	Grandfield
Tate, Vera Katherine N (n2)	Oklahoma
Taylor, Charles X	Okeene
Taylor, Irene N (n1, 2)	Oklahoma
Taylor, Lottie Orr A 38 (s)	Norman
Taylor, Ross Alvin E u 54 (1, 2)	Snyder
Taylor, Roy X (n1)	Oklahoma
Taylor, Russell Wheatley F u (n2)	Norman
Taylor, Susie Ada A u 3 (ns)	Norman
Tebbe, Gerald Stamper A 61 (1, 2)	Perry
Tedrowe, John Pierre A (n1); M 3 (1, 2)	Elk City
Thacker, Mabel Arvle G 15 (s)	Lexington
Thoburn, Mary Elanore A u 14 (n1, 2); F g. I (1, 2)	Norman
Thomas, Chester Reams A 86 (s, 1, 2)	Tulsa
Thomas, Edwin Crawford M 4th (n1, 2)	Gold Hill, Ala.
Thomason, Frank M 19 (n1, 2)	Chandler
Thompson, Effie May F u (n1)	Norman
Thompson, Harry X	Lawton
Thomson, Gosche X (n1)	Oklahoma
Tibbets, Leadren P 33 (1, 2)	Seiling
Tinkelpaugh, Harold A u 16 [n 1, 2]	El Reno
Tisdel, Dana Mason A 125 (1, 2)	Muskogee

Tittle, Lem Hensley L u 48 (1, 2)	Mangum
Titus, C. B. X	Cherokee
Titus, Edith X	Cherokee
Toberman, John Philip L 38 (2); F (2); A (2)	Norman
Tolbert, Jennie Gilbert A 114 (1, 2)	Hobart
Tolbert, Ruth Ann A 105 (1, 2)	Hobart
Toomer, Morrison Reasoner A 105 (1, 2)	Muskogee
Tremble, Marguerite X (n1)	Oklahoma
Trevarthern, Jessie A u (ns)	Norman
Trevette, J. W. A 104 (ns, 1, 2)	Geary
Trimble, Carolyn X	Sayre
Trout, Lena Pearl A 109 (s, 1, 2)	Norman
Trout, Vinnie A u 4 (n 1, 2)	Norman
True, Laurel May A 62 (n 1, 2)	Oklahoma
Tucker, Andrew Lewis A 17 (n 1, 2)	Norman
Tucker, James Daniel A u 7 (ns, 1, 2)	Norman
Tucker, Minnie Lavada N (s, 2)	Oklahoma
Turk, Solon William L 86 (1); F u (1)	Lexington
Turnbull, Charles Cleveland A 88 (s, 1, 2)	Caddo
Tyler, Robert Zachariah A u 9 (n 1)	Weleetka
Unzner, Isabella A 25 (n 1, 2)	Shawnee
Uri, Hubert A 17 (n 1, 2)	Shawnee
VanBuskirk, Florence Nellie F 62 group IV (1,2)	Seminole
Van Noy, Walter X	Tishomingo
Vance, Daisy X (n 1)	Oklahoma
Vernor, William Miller E 35 (1, 2)	Ardmore
Vincent, Duke William M 19 (n 1, 2)	Mutual
Vincent, Hazel Margaret A u 17 (n 1, 2)	Mutual
Virgin, Joseph Edwin A u (n s)	Norman
Virgin, Mary Lorette A u 14 (s)	Noble
Wade, Lisby Lucius M 21 (n 1, 2); A 70 (1, 2)	Ryan
Wagner, Florence A 49 (n 1, 2)	Monnet, Mo.
Wagner, Orene F u 5 group II (n 1, 2)	Monnet, Mo.
Wails, Charles Edgar P u 29 (1, 2)	Norman
Wails, Minnie A u 46 (s)	Norman
Waldrep, Thomas L 41 (1, 2)	Shawnee
Walker, Donald Edward A 77 (1, 2)	Norman
Walker, Helena Maude F 50 group II (1, 2)	Norman
Walker, Robert Scott A u 21 (ns, 1, 2)	Norman
Walker, William Archibald P 38 (1, 2)	Holdenville
Wallace, Alvin Burie A 17 (n 1, 2)	Chickasha
Wallace, Marie A u 13 (n 1, 2)	Oklahoma
Wand, Hettye X (n1)	Oklahoma

Wand, Virginia X (n1)	Oklahoma
Ward, Loren Albert A 17 (n 1, 2)	Marlow
Wardner, Julia Alberta A 99 (n 1, 2)	Norman
Warner, Hiram Alford A 94 (s, a); X	Richland
Warshauer, Bertha F 7 group I (n 1, 2)	Sallisaw
Watkins, Roberta F u 3 group I (n l, 2)	Konawa
Watson, Joseph Dent E 80 (l, 2)	Oklahoma
Watson, Pearl X (n l, 2)	Oklahoma
Wax, Edgar A 61 (s, l, 2)	Waurika
Weatherred, Callie F u 57 group IV (l, 2)	Durant
Weatherred, Juanita Agnes A 107 (s, l, 2)	Durant
Weaver, Floy A 104 (a, 2)	Oklahoma
Webb, Irma Marguerite A u 53 (s l, 2); F u (2)	Norman
Webb, Ralph Nave A 50 (1, 2)	Pawnee
Webb, Roy Abner M u 50 (l, 2): A (s)	Norman
Weille, Elizabeth X (n l, 2)	Oklahoma
Webster, Calla Vandivier A 6 [s]	Norman
Webster, Tine Hayes A 12 [s]	Norman
Weeden, Henry John A u 103 [l, 2]	Norman
*Weimer, Ben A 38 (1, 2)	McAlester
Weir, Ralph Leon E 17 (n1, 2)	Buffalo, N. Y.
Weis, Effie Edward P 18 (1, 2)	Higgins, Tex.
Weiser, Leslie Smith A 72 (n1)	Edmond
Welch, Oscar Lee E u 23 (l, 2)	Purcell
Welch, Percilee A u 7 (s)	Norman
Welden, Carl Roy A u (n s)	Norman
Wellemeyer, Ernest X (n1)	Oklahoma
Wells, Era Esther A 54 (ns, 1, 2); F (1)	Norman
West, Benjamin Harrison A 124 (s, a)	Navina
West, Willis Kelley M 3rd (l, 2)	Oklahoma
Westervelt, Lucile A (n1, 2)	Oklahoma
Westfall, Chester Harold A 54 (1, 2)	Chickasha
Westfall, Clarence Howard E (n1)	Oklahoma
Westhafer, Terrence Onas A 110 [a, l, 2]	Buffalo
Wetzel, Otto Kramer A 16 (nl, 2)	Oklahoma
Wetzel, Walter Newton L 8 (1); A 16 (1, 2)	Oklahoma
Whetstone, Ruth Juanita X (n1)	Spencer
Whisenant, J. Barney A u 13 (n1, 2)	Duncan
White, Ben Samuel E u 12 (n1, 2)	Wynnewood
White, Charles Lincoln X (n1, 2)	Oklahoma
White, Mrs. Charles Lincoln X (n1)	Oklahoma
White, Gordon Wells A (n2)	Altus

*Deceased

White, Henry George A 34 [l, 2]	Chickasha
White, Herbert Earl E 61 (1, 2)	Chickasha
White, Hugh Allen L u (n1, 2)	Dustin
White, Lillian Ethel A 53 [1, 2]	Hartshorne
White, Luther Herman A 110 [s, 1, 2]	Altus
White, Winnie A u 11 (n1, 2); F u (1)	Chickasha
Whiteman, Carl F u 6 group II (n1, 2)	Oklahoma
Whitley, Clarence Lyndon A u 6 (ns)	Tupelo
Whitwell, Alta N (n1, 2)	Norman
Whitwell, Clyde Herbert A u 21 (ns, 1, 2)	Norman
Whitwell, Earle Vernon A u 60 [1, 2]	Norman
Whitwell, Elvis Bland A 13 (n1, 2)	Norman
Whitwell, Ray Fullerton A u 43 (1)	Norman
Wickizer, Lucile Grace F u (n1, 2)	Norman
Wickman, Maude X (n1, 2)	Fletcher
Wiggins, Mary A 114 (1, 2)	Oklahoma
Wiggins, Nell A 84 (1, 2)	Oklahoma
Wiggins, Ruby F 51 group IV (1, 2)	Oklahoma
Wikoff, Marguerite Ruth F u 22 (1)	Oklahoma
Wilburn, Sidney X (n1)	Oklahoma
Wilcox, Frank Luedde E 18 (n1, 2)	Norman
Wilhite, Lee M 28 (n1, 2)	Helena
Williams, Grace A 79 (1, 2)	Oklahoma
Williams, Jennie Gladys F u 10 group III (2)	Purcell
Williams, Junia A 91 (a)	Guthrie
Williams, Leitus A 20 (ns, 1, 2)	Lawton
Williams, Oscar P (n1)	Kingston
Williams, Raymond Bezae F u 30 group III (2)	Norman
Willibey, William Herbert A 62 (l)	Sapulpa
Willis, Jackson A u 46 (1)	Marlow
Wilson, Earl F 13 (n l, 2)	Mangum
Wilson, Edward Bennett E u 14 (n1, 2)	Calumet
Wilson, Ethel A 90 (n1, 2)	Enid
Wilson, May Ella A 17 (n1, 2)	Calumet
Wilson, Virgil M 19 (n 1, 2)	Grant City, Mo.
Wingo, Lillian Robinson A u (n s)	Ada
Winsor, Mildred Alice A 88 (l)	Frederick
Winter, Leland A 17 (n 1, 2)	Vici
Wirick, Harry E u 17 (n 1); L (2)	Okmulgee
Witcher, Edward Kitchell G 2 (n 1)	Olney, Ill.
Witcher, Elizabeth A 17 (n l, 2)	Olney, Ill.
Witt, Wilton X (n1)	Oklahoma
Wolfe, Arthur Roscoe G 34 (l); L 19 (1)	Norman

Wolf, Leo E 50 (l, 2)	Newkirk
Woll, James Calaway M 19 (n 1, 2)	Sallisaw
Wood, Edwin Kirtley A 16 (n 1, 2)	Edmond
Wood, Homa L 36 (l, 2)	Blackwell
Wood, Virgil Oliver M (n1); A 73 (1, 2)	Blackwell
Woodruff, J. A. X (n 1)	Oklahoma
Woodruff, Rula May A u 1 (n s)	Hammond
Woods, Ed. E 13 (n 1, 2)	Altus
Woods, Sam Hubert E 14 (n 1, 2)	Altus
Woody, John Leonard A 13 (n 1, 2)	Madill
Woolsey, B. Fred A 17 (n 1, 2)	Hennessey
Woolsey, Everest Verne A 64 (1, 2)	Hennessey
Wright, Hugh Dell L 5 (n 1, 2)	Comanche
Wright, Norman X (n 1, 2)	Oklahoma
Wyand, Russell A 17 (n 1, 2)	Woodward
Wyatt, Francis Seymour A 107 (s, 2)	Alva
Wymore, Carrie F u 6 (n1, 2)	Norman
Yates, Fred Lee L 14 (n1); A (2)	El Dorado
Yates, Osco P 4 (n1, 2)	Konawa
Yeager, Valeria Helen A 108 (l, 2)	Tulsa
Yeakel, Earle Leroy A 73 (l, 2); M 44 (l, 2)	Wichita, Kan.
Yeokum, Leona X (n1)	Oklahoma
Young, Francis Edgar L 20 (l, 2)	Norman
Young, Omer M 6 (1, 2)	Norman
Young, Pearlie F u 22 (1, 2)	Norman
Zahn, Paul Alkire A 9 (n1); E (1)	Oklahoma
Zink, John Steele A 17 (n1, 2)	Norman
Zink, Mildred A 107 (s, a, 1, 2)	Norman
Zinn, Leila Percita F 14 group II (n1, 2)	Prague
Grand Total	1377

SUMMARY OF STUDENTS BY SCHOOLS AND CLASSES, 1913-1914

		Total, Duplicates excluded
THE GRADUATE SCHOOL (Exclusive of Summer Session)	16	
Summer Session	23	37
THE COLLEGE OF ARTS AND SCIENCES		
Seniors	85	
Juniors	74	
Sophomores	85	
Freshmen	147	
Unclassified	123	
Extension Classes	107	
Summer Session	287	808
THE SCHOOL OF FINE ARTS		
Graduate Students	10	
Seniors	5	
Juniors	4	
Sophomores	12	
Freshmen	39	
Unclassified	154	
Summer	16	231
THE SCHOOL OF LAW		
Third Year	12	
Second Year	31	
First Year	62	
Unclassified	35	140
THE COLLEGE OF ENGINEERING		
Seniors	7	
Juniors	7	
Sophomores	11	
Freshmen	35	
Unclassified	31	91
THE SCHOOL OF MEDICINE		
Seniors	15	
Juniors	14	
Sophomores	14	
Freshmen	37	
Unclassified	14	
Training School for Nurses	28	
Training School for Nurses (Summer)	14	122
THE SCHOOL OF PHARMACY		
Four Year Course	2	
Second Year, Two Year Course	11	
First Year, Two Year Course	22	
Unclassified	16	51
ABSENTIA AND CORRESPONDENCE	91	91

GENERAL SUMMARY

Grand total	1571
Summer Session (1913)	340
Grand total excluding duplicates	1377
Total excluding non-resident students	1235
Total in residence exclusive of summer session	1008

COUNTIES AND STATES REPRESENTED IN THE UNIVERSITY DURING 1913-14

County	Number of Students	County	Number of Students	County	Number of Students
Adair	1	Kiowa	19	Washita	5
Alfalfa	11	Latimer	0	Woods	6
Atoka	6	LeFlore	8	Woodward	5
Beaver	0	Lincoln	25		
Beckham	11	Logan	15	**States**	
Blaine	12	Love	1		
Bryan	15	Major	3	Alabama	10
Caddo	12	Marshall	10	Arkansas	10
Canadian	16	Mayes	3	Arizona	1
Carter	13	McClain	11	Connecticut	1
Cherokee	7	McCurtain	1	Illinois	7
Choctaw	7	McIntosh	0	Indiana	1
*Cleveland	331	Murray	12	Iowa	4
Cimarron	0	Muskogee	18	Kansas	22
Coal	4	Noble	5	Kentucky	5
Comanche	11	Nowata	4	Michigan	1
Cotton	9	Okfuskee	9	Mississippi	1
Craig	5	Oklahoma	204	Missouri	19
Creek	9	Okmulgee	8	New Jersey	2
Custer	14	Osage	4	New Mexico	4
Dewey	4	Ottawa	1	New York	5
Delaware	2	Pawnee	8	N. Carolina	1
Ellis	2	Payne	8	Ohio	2
Garfield	15	Pittsburg	14	Pennsylvania	4
Garvin	22	Pontotoc	27	S. Carolina	2
Grady	21	Pottawatomie	27	S. Dakota	1
Grant	14	Pushmataha	1	Tennessee	1
Greer	19	Roger Mills	4	Texas	24
Harmon	4	Rogers	14	Virginia	1
Harper	1	Seminole	8	Wyoming	1
Haskell	4	Sequoyah	6	**Foreign Countries**	
Hughes	11	Stephens	17		
Jackson	15	Texas	3	Bulgaria	1
Jefferson	9	Tillman	16	Mexico	1
Johnson	3	Tulsa	18	Russia	1
Kay	35	Wagoner	3		
Kingfisher	12	Washington	6	Total	1377

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The University Bulletin has been established by the university. The reasons that have led to such a step are: first, to provide a means to set before the people of Oklahoma, from time to time, information about the work of the different departments of the university: and, second, to provide a way for the publishing of departmental reports papers, theses, and such other matter as the university believes would be helpful to the cause of education in our state. The Bulletin will be sent post free to all who apply for it. The university desires especially to exchange with other schools and colleges for similar publications.

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Norman, Oklahoma.

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NEW SERIES NO. 90. MARCH 1915

UNIVERSITY OF ILLINOIS
AUG 2 1922

THE UNIVERSITY OF OKLAHOMA
QUARTERLY BULLETIN

GENERAL CATALOGUE

1914-1915

WITH ANNOUNCEMENTS FOR 1915-1916

Norman, Oklahoma
MARCH 1915

The University Bulletin, published by the university, is issued every three months on the fifteenth as follows: March, June, September, and December. Entered at the postoffice at Norman, as second class matter, under act of congress of July 16, 1894.

The University of Oklahoma

QUARTERLY BULLETIN

General Catalogue

1914-1915

PUBLISHED QUARTERLY BY THE UNIVERSITY
NORMAN, OKLAHOMA.

1914

SEPTEMBER

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23	24	25	26	27	28	29
30	31	..	..	..	..	..

AUGUST

S	M	T	W	T	F	S
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6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	..	....

1914-15	THE UNIVERSITY YEAR	1915-16
1914	First Semester	1915
Sept. 22, 23	Entrance examinations. Registration.	Sept. 21, 22
Sept. 24	Class work begins, 8:07 a. m.	Sept. 23
Sept. 30	President's Annual Address, 10:00 a. m.	Sept. 29
Oct. 2	President's reception to Students and Faculty.	Oct. 1
Nov. 3	General Election.	———
Nov. 25	Thanksgiving recess begins, 12:00 m.	Nov. 24
Nov. 30	Class work resumed, 8:07 a. m.	Nov. 29
Dec. 18	Christmas recess begins, 5:30 p. m.	Dec. 17
1915		1916
Jan. 4	Class work resumed, 8:07 a. m.	Jan. 3
Feb. 1	Mid-year examinations begin.	Jan. 31
	Second Semester	
Feb. 5	Annual Faculty Concert, School of Fine Arts, 8:00 p. m.	Feb. 4
Feb. 5, 6	Entrance examinations. Registration.	Feb. 4, 5
Feb. 8	Class work begins, 8:07 a. m.	Feb. 7
Feb. 22	Washington's Birthday.	Feb. 22
Apr. 1	Easter recess begins, 5:30 p. m.	Apr. 20
Apr. 6	Class work resumed, 8:07 a. m.	Apr. 25
Apr. 22-24	Interscholastic Meet.	Apr. 27-29
May 3	Final date for submitting finished theses.	May 1
May 30	Memorial Day.	May 30
June 3	Final examinations begin.	June 1
June 6	Baccalaureate Sunday.	June 4
June 7	Commencement recital, 8:30 p. m.	June 5
June 8	Senior class play, 8:30 p. m.	June 6
June 9	Commencement concert, 8:30 p. m.	June 7
June 10	Commencement exercises, 10:30 a. m. Alumni luncheon, 1:00 p. m.	June 8
	Summer Session	
June 11, 12	Entrance examinations. Registration.	June 9, 10
June 14	Class work begins, 7:15 a. m.	June 12
July 4	Independence Day.	July 4
Aug. 6	Close of summer session. August convocation, 8:00 p. m.	Aug. 4

NOTE.—The university opens regularly on the fourth Thursday of September and closes on the second Thursday of June.

Holidays are general election days, Thanksgiving, Christmas and Easter recesses, Washington's birthday, Memorial Day and the Saturday of the Interscholastic Meet, and in the Summer Session, Independence Day.

MEMBERS OF THE STATE BOARD OF EDUCATION

MEMBER EX OFFICIO

ROBERT H. WILSON . . . . . Chickasha
State Superintendent of Public Instruction

TERM EXPIRES 1915

HENRY C. POTTERF . . . . . Ardmore

TERMS EXPIRE 1917

FRANCIS B. FITE, M. D. . . . . Muskogee
JOHN F. WARREN . . . . . Oklahoma City

TERM EXPIRES 1919

DAVIS HILL . . . . . Vinita

OFFICERS OF THE BOARD

ROBERT H. WILSON, PRESIDENT . . . Oklahoma City
LESLIE T. HUFFMAN, SECRETARY . . . Oklahoma City

OFFICERS OF ADMINISTRATION AND INSTRUCTION, 1914-1915

President, Vice-President, and Deans

STRATTON DULUTH BROOKS, A. B., Michigan, 1896; A. M., Harvard, 1904; LL. D., Colby, 1912.
President of the University, (1912.)

EDWIN DEBARR, B. S., Michigan Agricultural College, 1891; M. S., 1893; Ph. B., Michigan, 1892; Ph. D., 1899.
Vice-President of the University, Director of the School of Chemical Engineering, Professor of Chemistry, (1892), 1911.

JAMES SHANNON BUCHANAN, B. S., Cumberland University, 1885.
Dean of the College of Arts and Sciences, Professor of History, (1895), 1909.

ALBERT HEALD VAN VLEET, B. S., Wisconsin, 1895; M. A., Ph. D., Leipzig, 1897.
Dean of the Graduate School, Professor of Botany, 1898, (1899), 1914.

JAMES HUSTON FELGAR, A. B., Kansas, 1901; B. S., Armour Institute of Technology, 1905; M. E., 1911.
Dean of the College of Engineering, Professor of Mechanical Engineering, 1906, (1907), 1909.

FREDRIK HOLMBERG, B. M., Bethany College, Lindsborg, Kan., 1899.
Dean of the School of Fine Arts, Professor of Music, 1903, (1907), 1913.

JULIEN CHARLES MONNET, A. B., Iowa, 1892; LL. B., 1893; A. M., 1905; LL. B., Harvard, 1908.
Dean of the School of Law, Professor of Law, (1909).

NOTE:—Members in each group are printed in the order of appointment to that group. The first date following the title is the date of first appointment to the university; the date in parentheses is the year of appointment to the present rank (professors and associate professors are ranked together); the last date is the year of appointment to the present position.

All addresses are at Norman unless otherwise specified.

CHARLES HOWARD STOCKING, Ph. C., Michigan, 1907; B. S., Michigan, 1909.
Dean of the School of Pharmacy, Professor of Pharmacy, (1912.)

CURTIS RICHARD DAY, M. D., St. Louis University, 1891; Ph. G., Ohio Institute of Pharmacy, 1906.
Dean of the School of Medicine, Professor of Pathology, Serology, and Clinical Microscopy, 1910, (1913), 1914.
422 State National Bank Building, Oklahoma City.

Professors and Associate Professors

JOSEPH FRANCIS PAXTON, A. B., Missouri, 1891; A. M., Harvard, 1895.
Professor of Greek and Classical Archaeology, (1896), 1906.

†ROY GITTINGER, B. A., Oklahoma, 1902; A. M., Chicago, 1906.
Professor of English History, 1902, (1905), 1910.

JAMES WELLINGS STURGIS, A. B., Michigan, 1896; A. M., 1897; Ph. D., 1910.
Professor of Latin, (1900), 1905.

†SAMUEL WATSON REAVES, B. S., North Carolina, 1899; A. B., Cornell, 1900; A. M., Chicago, 1912.
Professor of Mathematics, (1905).

†SARDIS ROY HADSELL, B. A., Oklahoma, 1904; A. M., Harvard, 1907.
Professor of the English Language, 1904, (1907), 1910.

GUY YANDALL WILLIAMS, B. A., Oklahoma, 1906; M. A., 1910; M. S., Chicago, 1911; Ph. D., Illinois, 1913.
Professor of Physical Chemistry, 1906, (1908), 1914.

†HENRY HIGGINS LANE, Ph. B., DePauw, 1899; M. A., Indiana, 1903.
Professor of Zoology, 1906, (1908).

JEROME DOWD, B. A., Trinity College, North Carolina, 1882; M. A., 1896.
Director of the School of Commerce and Industry, Professor of Sociology and Economics, 1907, (1908), 1913.

THEODORE HAMPTON BREWER, B. A., Vanderbilt, 1896; M. A., 1907.
Director of the School of Journalism, Professor of English Literature, (1908), 1913.

LUCILE DORA, A. B., Christian College, 1898; M. A., Hellmuth College, London, Ontario, 1901.
Professor of the Romance Languages and Literatures, (1908), 1910.

WALTER LEANDER CAPSHAW, M. D., St. Louis University, 1907.
Professor of Anatomy, (1908).

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†On leave of absence, 1914-15.

†Louis Alvin Turley, B. S., Idaho, 1903; A. M., Harvard, 1906.
Professor of Histology and Pathology, (1908), 1912.

Monroe Allen Floyd, B. S., A. B., Missouri, 1905; A. M., Chicago, 1913.
Associate Professor of History, (1908).

Daniel Webster Ohern, A. B., Drake University, 1898; A. M., West Virginia, 1899; Ph. D., Johns Hopkins, 1907.
Special Lecturer on Oklahoma Geology, with rank of Professor, (1908), 1912.

Harold Veatch Bozell, B. S., Kansas, 1908.
Director of the School of Electrical Engineering, Professor of Electrical Engineering, 1908, (1909), 1911.

John Henry Voss, A. B., Nebraska, 1902; M. A., Oklahoma, 1911.
Associate Professor of German, 1908, (1909).

Herbert Bancroft Dwight, B. S., Colorado, 1904; E. E., 1914.
Professor of Mechanics, 1908, (1909), 1911.

Charles Henry Taylor, B. S., Chicago, 1907; M. S., 1909.
Director of the School of Mining Geology, Professor of Geology, (1909), 1912.

William Peter Haseman, A. B., Indiana, 1903; A. M., 1904; Ph. D., Pennsylvania, 1907.
Professor of Physics, (1909).

Errett Rains Newby, B. M., Oklahoma, 1907; B. A., 1908.
Secretary, Registrar, with rank of Professor, 1908, (1909), 1911.

Archa Kelly West, M. D., Memphis Hospital Medical College, 1894.
Professor of Medicine, (1910), 1911.
306 Majestic Building, Oklahoma City.

Robert Mayburn Howard, M. D., Michigan, 1901.
Associate Professor of Surgery, (1910), 1913.
603 Security Building, Oklahoma City.

Edmund Sheppard Ferguson, M. D., Detroit College of Medicine, 1895.
Professor of Eye, Ear, Nose, and Throat Diseases, (1910), 1911.
612 State Bank Building, Oklahoma City.

John William Riley, M. D., University of Buffalo, 1901.
Professor of Genito-Urinary Surgery, (1910), 1914.
119 W. Fifth Street, Oklahoma City.

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†On leave of absence, 1914-15.

HORACE REED, M. D., Missouri, 1901.
Associate Professor of Surgery, (1910), 1913.
622-23 State Bank Building, Oklahoma City.

HENRY HUBBARD FOSTER, A. B., Cornell, 1899; LL. B., Harvard, 1908.
Professor of Law, (1910).

†JOHN BEGG CHEADLE, A. B., Kansas, 1898; LL. B., 1902.
Professor of Law, 1909, (1911).

VICTOR HENRY KULP, Ph. B., Chicago, 1905; J. D., 1908.
Professor of Law, (1911).

JOHN ALLEY, A. B., Kingfisher College, 1902; A. B., Harvard, 1908.
Professor of Political Science, (1911).

†ROY TEMPLE HOUSE, A. B., Miami, 1900; A. M., 1903.
Professor of German, (1911).

JOHN ARCHER HATCHETT, M. D., Missouri Medical College, St. Louis, 1884.
Professor of Obstetrics and Gynecology, (1911), 1913.
El Reno, Oklahoma.

JAMES IRWIN TUCKER, B. S., Tufts, 1901; LL. B., Boston Evening Law School, 1909.
Director of the School of Civil Engineering, Professor of Civil Engineering, (1911), 1913.

IRVING PERRINE, A. B., Cornell, 1907; A. M., 1911; Ph. D., 1912.
Professor of Stratigraphic Geology and Paleontology, (1912).

ABRAHAM LINCOLN BLESH, M. D., Northwestern, 1889.
Associate Professor of Surgery, (1912), 1913.
606-10 State Bank Building, Oklahoma City.

LAUREN HAYNES BUXTON, M. D., Vermont, 1884; LL. D., Central University, Pella, Iowa, 1907.
Professor of Eye, Ear, Nose, and Throat Diseases, (1912).
Colcord Building, Oklahoma City.

GAYFREE ELLISON, B. S., Bethany College, 1898; M. D., Rush Medical College, 1903.
Professor of Bacteriology, 1910, (1912).

ANDREW CLARKSON PARSONS, A. B., Nebraska, 1903.
Professor of Secondary Education, High School Inspector, (1912).

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†On leave of absence, 1914-15.

WARREN WAVERLEY PHELAN, A. B., Columbia, 1894; A. M., 1896; Ph. D., George Washington University, 1905.
Director of the School of Education, Professor of Psychology and Education, (1912), 1913.

*LOUIS COGSWELL, Graduate University of Michigan School of Music, 1911.
Associate Professor of Voice, (1913).

EDWARD FRANCIS DAVIS, M. D., Miami Medical College, University of Cincinnati, 1902.
Associate Professor of Eye, Ear, Nose, and Throat Diseases, 1911, (1913).
616-17 Colcord Building, Oklahoma City.

EVA ELLSWORTH DUNGAN, Cornell College, Iowa; Berlin: Paris.
Associate Professor of Piano and Public School Music, 1911, (1913).

CHARLES FRANCOIS GIARD, Graduate New England Conservatory of Music, 1905.
Associate Professor of Piano and Theory of Music, 1912, (1913).

JOHN SMITH HARTFORD, M. D., Kansas City Medical College, 1901.
Associate Professor of Gynecology, 1910, (1913).
603 Security Building, Oklahoma City.

GEORGE ALTHOUSE LAMOTTE, B. L., Missouri Valley College, Marshall, Mo., 1897; M. D., Jefferson Medical College, Philadelphia, 1901.
Associate Professor of Medicine, 1910, (1913).
518 Colcord Building, Oklahoma City.

LEWIS JEFFERSON MOORMAN, B. S., Georgetown College, Kentucky, 1898; M. D., Hospital College of Medicine (Central University), Louisville, Kentucky, 1901.
Associate Professor of Medicine, 1910, (1913).
622-23 State Bank Building, Oklahoma City.

LEONARD BLAINE NICE, Ph. B., Ohio, 1908; Ph. D., Clark, 1911.
Professor of Physiology, (1913).

LEA ARMISTEAD RIELY, A. B., Hanover College, Indiana, 1895; M. D., University of Louisville, 1898; A. M., Hanover College, 1901.
Associate Professor of Medicine, 1910, (1913).
335 American Bank Building, Oklahoma City.

ANGELO C. SCOTT, A. B., Kansas, 1877; A. M., 1880; LL. B., LL. M., Columbian University Law School, 1885.
Director of Extension Lectures, University Extension, with rank of Professor, (1913).

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*Resigned October 1, 1914.

JOSEPH WHITEFIELD SCROGGS, A. B., Lafayette, 1875; D. D., Washburn, 1902; A. M., Lafayette, 1910.
Director of the Department of Public Information and Welfare, University Extension, with rank of Professor, (1913).

HARRY COULTER TODD, B. A., Acadia College, Canada, 1897; M. D., Bowdoin, 1900; M. A., Acadia College, Canada, 1907.
Associate Professor of Eye, Ear, Nose, and Throat Diseases, 1912, (1913).
Colcord Building, Oklahoma City.

ANTONIO DEBORD YOUNG, M. D., Barnes Medical College, St. Louis, 1895.
Associate Professor of Nervous and Mental Diseases, 1910, (1913).
634 Security Building, Oklahoma City.

EDMUND PENDLETON RANDOLPH DUVAL, B. S., Texas, 1901; M. A., 1902; A. M., Harvard, 1904.
Associate Professor of Mathematics, (1914).

JOSEPH WARREN MADDEN, A. B., Illinois, 1911; J. D. Chicago, 1914.
Professor of Law, (1914).

WILLIAM ANTON SCHMIDT, A. B., Williamette, 1909; O. B., 1910; M. A., Washington, 1911.
Professor of the History and Administration of Education, (1914).

RICHARD GRAY SOUTAR, B. A., Wisconsin, 1912.
Professor of Physical Education, (1914).

LYMAN P. WILSON, B. S., Knox, 1900; J. D., Chicago, 1907.
Professor of Law, (1914).

Assistant Professors

JESSE LEE RADER, B. A., Oklahoma, 1908; M. A., 1913.
Librarian, with rank of Assistant Professor, 1908, (1909).

LLOYD BURGESS CURTIS, B. S., Oklahoma, 1908; B. S., in Electrical Engineering, 1910.
Assistant Professor of Spanish, Band Instructor, 1908, (1911).

†LOUISA BROOKE, B. A., Vassar, 1907.
Assistant Professor of English, 1909, (1911).

HOWARD STORM BROWNE, B. A., Oklahoma, 1911; Ph. C., 1912; M. S., 1913.
Assistant Professor of Materia Medica, 1911, (1912), 1914.

ARTHUR BARTO ADAMS, A. B., South Carolina, 1910; M. A., Columbia, 1912.
Assistant Professor of Economics, (1913).

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†On leave of absence, 1914-1915.

SAMUEL ROBERT CUNNINGHAM, M. D., Medical College of Indiana, Indianapolis, 1899.
Assistant Professor of Gynecology, 1910, (1913).
306 Majestic Building, Oklahoma City.

PATRICIO GIMENO, B. A., Academy of Art, Valencia, Spain, 1883.
Assistant Professor of Art, Instructor in Italian, 1911, (1913).

†CHARLES EARNEST HAMNER, M. D., Tulane University, 1911.
Assistant Professor of Bacteriology, (1913).

ROBERT LORD HULL, A. B., Bowdoin, 1897; M. D., Jefferson Medical College, Philadelphia, 1902.
Assistant Professor of Orthopedic Surgery, 1911, (1913).
432-34 American Bank Building, Oklahoma City.

JOHN FREDERICK KUHN, Ph. G., Illinois, 1893; M. D., Georgetown University, 1901.
Assistant Professor of Surgery, 1912, (1913).
619-20 State Bank Building, Oklahoma City.

EVERETT SAMUEL LAIN, M. D., Vanderbilt, 1900.
Assistant Professor of Dermatology, Electro-Therapy, and Radiography, 1912, (1913), 1914.
707 State Bank Building, Oklahoma City.

ROBERT ELMORE LOONEY, M. D., University of Nashville, 1902.
Assistant Professor of Obstetrics, 1910, (1913).
612 American Bank Building, Oklahoma City.

JOSEPH THOMAS MARTIN, A. B., St. Mary's College, Kansas, 1903; A. M., 1906; M. D., St. Louis University, 1907.
Assistant Professor of Children's Diseases, 1911, (1913).
318 E. Fourth Street, Oklahoma City.

JOSEPH FIFE MESSENBAUGH, M. D., Missouri Medical College, St. Louis, 1898.
Assistant Professor of Children's Diseases, 1910, (1913).
519 Colcord Building, Oklahoma City.

LESTER WILLIAM WALLACE MORROW, M. E., Cornell, 1911.
Assistant Professor of Electrical Engineering, (1913).

EDGAR ELMER RICE, A. B., American Normal College, Logansport, Ind., 1891; M. D., Hospital College of Medicine (Now University of Louisville), Louisville, Ky., 1896.
Assistant Professor of Gynecology, 1911, (1913).
Shawnee, Oklahoma.

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†On leave of absence, 1914-1915.

MILLINGTON SMITH, M. D., Missouri Medical College, St. Louis, 1881.
Assistant Professor of Surgery, 1910, (1913).
319 Colcord Building, Oklahoma City.

RALPH VERNON SMITH, M. D., Washington University, St. Louis, 1898.
Assistant Professor of Surgery, 1911, (1913).
Tulsa, Oklahoma.

*FRANK BRUNER SORGATZ, M. D., Northwestern, 1907.
Assistant Professor of Medicine, 1911, (1913)
419 Insurance Building, Oklahoma City.

BURTON FRANK TANNER, B. L., Dakota Wesleyan University, 1908; Graduate Cumnock School of Oratory, Northwestern University, 1912.
Assistant Professor of Public Speaking, 1912, (1913).

WILLIAM MERRITT TAYLOR, B. S., Kentucky Wesleyan College, Winchester, Ky., 1894; M. D., University and Bellevue Hospital Medical College, New York City, 1898.
Assistant Professor of Children's Diseases, 1911, (1913).
509-12 State Bank Building, Oklahoma City.

CURT OTTO VON WEDEL, JR., M. D., University and Bellevue Hospital Medical College, New York, 1907.
Assistant Professor of Surgery, 1912, (1913).
720 N. Robinson Street, Oklahoma City.

LEIGH FESTUS WATSON, Ph. G., Virginia School of Pharmacy, 1902; M. D., Medical College of Virginia, 1906.
Assistant Professor of Surgery, 1911, (1913).
611 Colcord Building, Oklahoma City.

ARTHUR WEAVER WHITE, B. A., Monmouth College, 1898; M. D., Rush Medical College, 1902; A. M., Monmouth College, 1908.
Assistant Professor of Medicine, 1912, (1913).
400 Colcord Building, Oklahoma City.

ARTHUR ANDERSON WILL, M. D., Albany Medical College, 1900.
Assistant Professor of Rectal Surgery, 1912, (1913).
400 Colcord Building, Oklahoma City.

WILLIAM JONES WALLACE, Ph. C., 1900; M. D., 1901, University of the South, Nashville, Tennessee.
Assistant Professor of Genito-Urinary Diseases, (1914).
203 American National Bank Building, Oklahoma City.

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*Assistant Professor of Histology and Pathology for 1914-15.

WARDER CLYDE ALLEE, S. B., Earlham, 1908; S. M., Chicago, 1910; Ph. D., 1912.
Assistant Professor of Zoology, (1914).

ELIZABETH CHURCH, A. B., Dalhousie, 1896; A. M., Radcliffe, 1903; Ph.D., 1913.
Assistant Professor of English and Adviser of Women, (1914).

HAROLD HARVEY HERBERT, A. B., Illinois, 1912.
Assistant Professor of Journalism, 1913, (1914).

EARLE SELLERS PORTER, B. A., Oklahoma, 1911; M. A., 1912.
Assistant Professor of Chemistry, (1909), 1912.

ANDREW ROBERT RAMEY, A. B., Milliken, 1897; M. A., Virginia, 1902.
Assistant Professor of English, (1914).

WALTER JACOB WOHLENBERG, B. S., in Mechanical Engineering, Nebraska, 1910.
Assistant Professor of Mechanical Engineering, (1914).

Instructors

BENJAMIN GILBERT OWEN.
Assistant Director of Physical Training and Coach, with rank of Instructor, 1905, (1908).

JOHN MOSBY ALFORD, M. D., Tulane, 1895.
Instructor in Therapeutics, (1911), 1914.
504 Colcord Building, Oklahoma City.

*ANNETTE BOURBON COWLES, R. N.
Superintendent of the Hospital, with rank of Instructor, (1911).
325 E. Fourth Street, Oklahoma City.

LEWIS SPENCER SALTER, B. M., Oklahoma, 1912.
Instructor in Piano and Theory of Music, (1911), 1913.

FLOYD JACKSON BOLEND, Ph. C., University of Oklahoma, 1901; M. D., College of Physicians and Surgeons, St. Louis, 1906.
Instructor in Children's Diseases and Hospital Anaesthetist, (1912), 1914.
304-5-6-7 Security Building, Oklahoma City.

REX GEORGE BOLEND, B. S., University of Illinois, 1909; M. D., University of St. Louis, 1911.
Instructor in Medicine and Hospital Anaesthetist, (1912), 1914.
611 Security Building, Oklahoma City.

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*Resigned, February 1, 1915.

THOMAS CRAIG BURNS, M. D., Union College, Albany, New York, 1908.
Instructor in Nervous Diseases, (1912), 1913.
Security Building, Oklahoma City.

CHARLES DUNCAN FERGUSON, M. D., University of Toronto, Canada, 1901.
Instructor in Eye, Ear, Nose and Throat Diseases, (1912), 1914.
612 State Bank Building, Oklahoma City.

WILLIAM ALONZO FOWLER, L. I., Peabody College for Teachers, Nashville, Tennessee, 1905; M. D., University of Nashville, 1908.
Instructor in Obstetrics, (1912), 1914.
225 Lee Building, Oklahoma City.

ANDREW MERRIMAN YOUNG, M. D., Vanderbilt, 1909.
Instructor in Obstetrics, (1912), 1914.
319 Colcord Building, Oklahoma City.

LAWRENCE NELSON MORGAN, B. A., North Carolina, 1912.
Instructor in English, (1912).

CYRIL EBERT CLYMER, M. D., St. Louis, 1910.
Instructor in Surgery, (1913). 1914.

CASRIEL J. FISHMAN, PH. C., Michigan, 1902; B. S., 1906; M. D., Rush Medical College, Chicago, 1908.
Instructor in Medicine, 1911, (1913), 1914.
325 E. Fourth Street, Oklahoma City.

NELLIE MAY MCGINLEY, Graduate Art Department Ursuline Academy, Cleveland, Ohio, 1911.
Instructor in China Painting, (1913).

KENNETH POTTER MONROE, B. S., Chicago, 1913.
Instructor in Chemistry, (1913.)

RACHEL REVELL, Ph. B., Iowa State College, Grinnell, Iowa, 1904; Graduate of Sargent's School for Physical Education, Cambridge, Massachusetts, 1907.
Instructor in Physical Training, (1913.)

GEORGE FREDERICK WILLIAM SCHMIDT, B. M., Oklahoma, 1912.
Instructor in Voice, (1913).

JOSEPH BRADFIELD THOBURN, B. S., Kansas Agricultural College, 1893.
Instructor in History, (1913).

PAUL S. CARPENTER, Graduate Broadstreet Conservatory of Music, Philadelphia, 1912.
Instructor in Violin, (1914).

George Hunter, M. D., Louisville Medical College, Louisville, Kentucky, 1904.
Instructor in Obstetrics, (1914).
213 Baltimore Building, Oklahoma City.

Alexander Watts McCoy, C. E., University of Missouri, 1912; M. A., 1914.
Instructor in Geology, (1914).

Leila Edna Andrews, M. D., Northwestern, 1900.
Instructor in Medicine, (1914).
405 Colcord Building, Oklahoma City.

Everett Sterling Davis.
Instructor in Shop Practice, (1914).

Edmund Berrigan.
Assistant in Extension Department, with rank of Instructor, (1914).

Edward Everett Dale, B. A. Oklahoma, 1911; A. M., Harvard, 1914.
Instructor in History, (1914.)

William Harrison Emig, A. B., Washington, St. Louis, 1911.
Instructor in Biology, (1914).

Harry Clinton Gossard, B. S., Ohio Northern, 1907; Ph. D., Johns Hopkins, 1914.
Instructor in Mathematics, (1914).

†Metta Kathryn Legler.
Instructor in Voice, (1914).

Addie Maloy, B. A., Oklahoma, 1914.
Instructor in Physics, (1914).

Edgar D. Meacham, B. A., Oklahoma, 1914.
Instructor in Mathematics, (1914).

Mollie Anne Peterson, Graduate Pratt Institute, 1912; Ph. B., Chicago, 1914.
Instructor in Art, (1914.)

Doris Mundy, B. M., Oklahoma, 1913.
Instructor in Piano, (1914).

Herbert Victor Louis Sapper, B. S., B. A., Oklahoma, 1914.
Instructor in Bacteriology, (1914).

Gilbert Harmer Smith, B. A., Trinity, 1904; B. D.. Union Theological Seminary, (New York City,) 1908.
Instructor in English, (1914).

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†From December 1, 1914.

GRACE BINFORD SMITH, Ph. B., Lincoln College, 1912.
Library Cataloging Clerk, with rank of Instructor, (1914).

AUGUST STEITZ, B. A., New York University, 1905: M. A., Yale, 1906; Ph. D., New York University, 1914.
Instructor in German, (1914).

GUY BRADFORD TREAT, B. C. E., Michigan, 1911.
Instructor in Civil Engineering, (1914).

†JOHN ARTHUR RECK, M. D., Marion Sims College of Medicine, St. Louis, 1893.
Instructor in Gynecology, (1914).
606 Colcord Building. Oklahoma City.

‡LUCY RENETTE HILL, R. N., Bethany Hospital, Kansas City, 1898.
Superintendent, University Hospital, with rank of Instructor, (1915).
325 E. Fourth Street, Oklahoma City.

‡JOHN PAINE TORREY, M. D., Harvard, 1896.
Instructor in Physical Diagnosis, (1915).

Special Lecturers and Special Directors

ROBERT LEE WILLIAMS, A. M., LL., D.
Governor and Ex-Chief Justice of the Supreme Court. Lecturer on the Oklahoma Constitution, (1909).
State Capitol, Oklahoma City.

SAMUEL W. HAYES.
Ex-Chief Justice of the Supreme Court. Lecturer on Legal Ethics, (1909).
Lawrence Building, Oklahoma City.

HENRY MARSHALL FURMAN.
Justice of the Criminal Court of Appeals. Lecturer on Criminal Jurisprudence, (1909).
Lawrence Building, Oklahoma City.

CHARLES B. AMES, A. B., LL. B.
Ex-Supreme Court Commissioner. Lecturer in School of Law, (1909).
512 American Bank Building, Oklahoma City.

MALCOLM E. ROSSER, LL. B.
Ex-Supreme Court Commissioner. Lecturer in School of Law, (1909).
Lawrence Building, Oklahoma City.

WILLIAM ROBINSON MOLINARD, E. E., Johns Hopkins, 1893.
Lecturer on Electrical Railway Engineering, (1913).
Insurance Building, Oklahoma City.

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†From December 1, 1914. ‡From February 1, 1915.

STUART A. COURTIS.
Consulting Director of the Department of Measurement, Efficiency, and Standardization, School of Education, (1913).
82 Eliot Street, Detroit, Michigan.

SAMUEL THOMAS BLEDSOE.
Of the Oklahoma Bar. Lecturer on Indian Land Titles, (1913).
Colcord Building, Oklahoma City.

MATTHEW J. KANE.
Justice of the Supreme Court. Lecturer in the School of Law, (1913).
Lawrence Building, Oklahoma City.

J. H. KEATON, B. S., LL. B.
Ex-Judge District Court. Lecturer in the School of Law, (1913).
Terminal Building, Oklahoma City.

GEORGE WASHINGTON KNOX.
Lecturer in Electrical Railway Engineering, (1913).
Terminal Building, Oklahoma City.

HERBERT DELAVAN MASON, LL. B.
Of the Oklahoma Bar. Lecturer in the School of Law, (1913).
Tulsa, Oklahoma.

JAMES FRANKLIN NOBLE, A. B., Kansas, 1892; LL. B., Northwestern, 1894.
Lecturer in Telephone and Telegraph Engineering, (1913).
Pioneer Building, Oklahoma City.

LLOYD A. ROLAND, A. B., LL. B.
Of the Oklahoma Bar. Lecturer on Oil and Gas Law, (1913).
Bartlesville, Oklahoma.

CHARLES WEST, A. B.
Lecturer in the School of Law, (1913).
Lawrence Building, Oklahoma City.

G. W. HENSHAW, LL. B.
Member of the Oklahoma Corporation Commission. Lecturer in the School of Law, (1914).
Mercantile Building, Oklahoma City.

H. H. ROGERS, B. S.
Of the Oklahoma Bar. Lecturer in the School of Law, (1914).
Tulsa, Oklahoma.

R. A. Kleinschmidt, B. L., LL. B.
Of the Oklahoma Bar. Lecturer in the School of Law, (1914).
Patterson Building, Oklahoma City.

FRANK WELLS, LL. B.
Of the Oklahoma Bar, Lecturer in the School of Law, (1914).
Terminal Building, Oklahoma City.

Fellows

RUTH AUGHINBAUGH, B. A., Oklahoma, 1914.
Fellow in English, (1914).

RAY BALYEAT, B. A., Oklahoma, 1912.
Fellow in Chemistry, (1914).

ROSETTA BRIEGEL.
Fellow in Chemistry, (1914).

OLA FORBES, B. A., Oklahoma, 1913.
Fellow in Art, (1914).

HOMER LIVERGOOD.
Fellow in Electrical Engineering, (1914).

Business Officers and Assistants

*MORRIS MYERS, B. A., Oklahoma, 1911; M. A., 1912.
Analyst, Pure Food Laboratory, (1912).

JOSIAH LAWRENCE LINDSEY.
Financial Clerk, (1912).

GRADY KIRBY.
Assistant Registrar, (1913).

EDWARD KITCHELL WITCHER, B. A., Illinois, 1912.
Secretary, Student Employment Bureau, (1913).

‡PAUL HILL FESHER.
Clerk, Medical School, Oklahoma City, (1914).
317 E. Fourth Street, Oklahoma City.

Oklahoma Geological Survey

CHARLES WILLIAM SHANNON, A. B., Indiana, 1906; A. M., 1907.
Director, Oklahoma Geological Survey, 1912, (1913).

†LUTHER CROCKER SNIDER, A. B., Indiana, 1908; A. M., 1909.
Assistant Director, Oklahoma Geological Survey, 1909, (1913).

LAWRENCE EMORY TROUT, B. A., Oklahoma, 1912; M. A., 1913.
Field Geologist, Oklahoma Geological Survey, (1913).

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*Resigned October 15, 1914.
‡From October 1, 1914.
†On leave of absence, 1914-15.

STANDING COMMITTEES

Council: The president, the vice-president, and the deans.

Admission, Advanced Standing and Affiliation: Professors Gittinger, Williams, Dwight, Holmberg, Kulp, Turley, Parsons.

Assembly Committee: Professors Monnet, Holmberg, Sturgis.

Athletics: Professors Felgar, Alley, Bozell.

Committee of Audit: Professors Haseman, VanVleet, Perrine.

Conferences and Conventions: Professors Scroggs, Van Vleet, Newby.

Eligibility in Athletics: Professors Haseman, Floyd, Cheadle.

Graduate Studies: Professors VanVleet, Taylor, Williams.

Hygiene and Sanitation: Professors Felgar, Ellison, DeBarr.

Interscholastic Meet: Professors Bozell, Alley, Soutar, Salter, Parsons, Tanner.

Library: Professors Rader, Paxton, Dowd.

Lyceum Council: Professors Holmberg, Dowd, Kulp.

Non-Athletic Organizations: Professors Taylor, Dora, Sturgis, Voss, Nice.

Oratory and Debate: Professors Tanner, Foster, Scott.

Program: Professors Bozell, Perrine, Haseman, Reaves, Foster.

Recommendations: Professors Phelan, DeBarr, Sturgis.

Bulletin of University Studies: Professors Scroggs, Brewer, Haseman, Tucker, Perrine.

University Publications: Professors Newby, Paxton, Herbert.

OFFICIAL ADVISERS

Graduate School: The dean.

College of Arts and Sciences:

Freshmen: The dean and freshman advisers. (Freshmen should consult the dean and not the freshman advisers in regard to enrollment.)

Sophomores, Juniors, and Seniors: The major professors.

Unclassified Students: The dean.

School of Fine Arts: The dean.

School of Law: The dean.

School of Medicine: Oklahoma City, the dean; Norman, the dean or his representative.

School of Pharmacy: The dean.

College of Engineering: Freshmen, the dean.

Sophomores, Juniors, and Senior: The directors.

Training School for Nurses: Superintendent of the hospital.

FACULTY AND STUDENT COUNCILS

Athletic Council. Appointed by the President: Faculty—Professors Felgar, Alley, Bozell; Alumni, Newby. Elected by the Athletic Association: Faculty—Professor Monnet; Students—Messrs. William Clark, Curry Bell, Elmer Capshaw, John Harley.

Oratorical Council. Appointed by the President: Faculty—Professor Tanner. Elected by the Oratorical Association: Faculty—Professors Wilson, Foster; Students—Two from each of the literary societies of the university.

GENERAL INFORMATION

GENERAL INFORMATION

THE UNIVERSITY AND THE STATE

The University of Oklahoma is a part of the public educational system of the state. The governing body of the institution is the State Board of Education, consisting of the Superintendent of Public Instruction and six members appointed by the Governor. In accordance with the laws of Oklahoma, the university provides an opportunity to continue the work that is begun in the public schools, and furnishes, without charge for tuition, facilities for academic training and for thorough professional study. The university realizes the necessity of fitting into the public school system of the state; this is shown by its attitude toward the requirements for admission. A graduate of any four-year high school that maintains certain standards, is admitted without examination to freshman standing. In order to take advantage of this plan of admission, high schools are adjusting their work as rapidily as possible to these standards. Provision has been made by the university for visiting schools, and for giving them such suggestions and assistance in the matter of correlation as they desire. A detailed statement of the requirements for the affiiliation, or the recognition, of high schools, as well as of the requirements for the admission of students, may be found under the head of "Admission."

Apart from this close connection with the public schools, it is the purpose of the University of Oklahoma to reach general readers and investigators throughout Oklahoma. It is able to serve the general public chiefly through University Extension, which is described under the proper head. So far as possible, however, all its equipment is made useful to the people of the state at large. The summer session has been organized to open the doors of the university to students who are unable to attend during the school year.

Beyond its directly educational work, the University of Oklahoma stands as the concrete expression of the intellectual activity of the state, engaged in doing its part in extending the field of knowledge, especially in such directions as may be of the greatest and most obvious benefit to mankind. Thus by the action of the legislature it is called upon to do such research work in its laboratories in connection with the Pure Food and Health Commissions as will best aid

these bodies in protecting the health of our citizens and in carrying on the warfare against disease. Also, by locating the offices of the geological survey here, the legislature manifestly intended to use the facilities of the university for research in such a way as to aid in the development of the mineral resources of the state. These modest beginnings must be accepted as indications of what will become a very large and important work.

ORGANIZATION OF THE UNIVERSITY

Colleges and Schools

The University of Oklahoma comprises the following colleges and schools:

The Graduate School.
The College of Arts and Sciences, including
- The School of Commerce and Industry.
- The School of Education.
- The School of Journalism.

The School of Fine Arts.
The School of Law.
The School of Medicine, including
- The Training School for Nurses.

The School of Pharmacy.
The College of Engineering, including
- The School of Chemical Engineering.
- The School of Civil Engineering.
- The School of Electrical Engineering.
- The School of Mechanical Engineering.
- The School of Mining Geology.

The Graduate School offers advanced work leading to the degree of Master of Arts, Master of Science, and the higher degrees in engineering.

The College of Arts and Sciences offers:

a. Four years' work, largely elective, in classical, literary, and scientific studies, leading to the degree of Bachelor of Arts.

b. Four years' work, part of which is given in the School of Medicine, leading to the degree of Bachelor of Science.

The School of Fine Arts offers:

a. Four years' work in theory of music, in piano, in voice, and in violin, leading to the degree of Bachelor of Music.

b. Four years' work in drawing, painting, and domestic art.

c. Courses in expression and dramatic art.

d. Courses in violoncello, cornet and other brass instruments, and in watercolor and china painting.

e. Graduate courses in piano, voice, and violin for those who de-

sire to make public performances and repertoire a specialty. No degree is offered for this work.

f. Preparatory work in piano, in voice, and in violin.

The School of Law offers three years' work leading to the degree of Bachelor of Laws.

The School of Medicine offers four years' work leading to the degree of Doctor of Medicine. The School of Medicine offers also three years' work in the Training School for Nurses in the University Hospital, leading to a diploma and the title of Graduate Nurse.

The School of Pharmacy offers two years' work leading to the degree of Graduate in Pharmacy, three years' work leading to the degree of Pharmaceutical Chemist, and four years' work leading to the degree of Bachelor of Science in Pharmacy.

The College of Engineering offers four years' work in mechanical, in electrical, in civil, and in chemical engineering, leading to the degree of Bachelor of Science in mechanical, electrical, civil, or chemical engineering; and four years' work leading to the degree of Bachelor of Science in mining geology.

Faculties

Each college or separate school has a special faculty presided over by a dean. The general faculty consists of the president, the vice-president, the deans, all professors, associate professors, assistant professors, lecturers, and instructors, and the registrar and librarian.

The council consists of the president, the vice-president, and the deans.

HISTORY

The University of Oklahoma is founded upon the authority of an act of the legislature of the Territory of Oklahoma, entitled, "An act to locate and establish the University of Oklahoma." The act provided that when ten thousand dollars and forty acres of land should be given to the territory by the city of Norman the school should be located at that place. These requirements having been met, the University of Oklahoma was established at Norman in 1892.

The law states the scope and purpose of the school as follows:

"(6787) Sec. 9. The object of the University of Oklahoma shall be to provide the means of acquiring a thorough knowledge of the various branches of learning connected with scientific, industrial, and professional pursuits, in the instruction and training of persons in the theory and art of teaching, and also the fundamental laws of the United States and this territory in what regards the rights and duties of citizens.

"(6788) Sec. 10. The college department of arts shall embrace courses of instruction in mathematical, physical, and natural sciences

with their applications to the industrial arts, such as agriculture, mechanics, engineering, mining and metallurgy, manufactures, architecture, and commerce, and such branches included in the college of letters as shall be necessary to proper fitness of pupils in the scientific and practical courses of their chosen pursuits, and in military tactics; and in the normal department the proper instruction and learning in the theory and art of teaching in the common schools; and as soon as the income of the university will allow, in such order as the wants of the public shall seem to require, the said courses in the sciences and their application to the practical arts shall be expanded into distinct colleges of arts, and shall embrace a liberal course of instruction in languages, literature, and philosophy, together with such courses or parts of courses in the college of arts as the regents of the university shall prescribe.

"(6789) Sec. 11. The university shall be open to female as well as to male students, under such regulations and restrictions as the board of regents may deem proper, and all able-bodied male students of the university in whatever college may receive instruction and discipline in military tactics, the requisite arms for which shall be furnished by the territory."

The first legislature of the state, in 1907, adopted the territorial law in the provisions quoted above, with such additions and changes in details as seemed necessary at the time.

The university accepted students for the first time in the fall of 1892. In the spring of 1893 work was begun on the first building which was occupied the following September. During the first years the institution was a university in name only; a very large majority of the students were members of the lower classes of the preparatory school.

Colleges and schools have developed in the following order:—

The College of Arts and Sciences, 1893; the School of Pharmacy, two year plan, 1893, four year plan, 1908, three year plan, 1914; Graduate work, 1899, the Graduate School organized separately, 1909; the School of Medicine, first two years' work, 1900, third and fourth years, 1910; the School of Fine Arts, 1903; the School of Applied Science and the School of Mines, 1904, reorganized as the College of Engineering, 1909; the Summer Session, 1908; the School of Law, 1909; the School of Education, 1909; Training School for Nurses, 1912; School of Commerce and Industry, 1913; School of Journalism, 1913.

The first class was graduated from the School of Pharmacy in 1896; the first degrees were granted by the College of Arts and Sciences in 1898; the first master's degree was granted in 1900; the first degree was granted by the School of Fine Arts in 1905; the first in Engineering, in 1908; the first for the four-year course in phar-

macy, in 1910; the first by the School of Law, in 1910; the first by the School of Medicine, in 1910; the first nurse's diploma, in 1913.

David Ross Boyd was president of the university from 1892 to 1908. Arthur Grant Evans was president of the university from 1908 to 1911. Julien Charles Monnet was acting-president during the school year 1911-12. Stratton Duluth Brooks became president of the university on May 1, 1912.

SUPPORT

The University of Oklahoma is supported from the general revenue of the state and from the income received from lands set aside by Congress out of the public domain as an endowment for the state schools.

The revenue for the year ending June 30, 1915, is as follows:

For Support and Maintenance

	1914-1915
General appropriation	$160,000.00
From section 13	33,750.00
From new college lands	19,500.00
From the university section	2,400.00
For university extension	7,500.00
Total	223,150.00

The endowment in land was made by Congress in two grants: Section 13 in each township, in what is known as the Cherokee Outlet and in the Kiowa, Comanche, and Wichita reservations, opened for settlement in 1901, was reserved for the university, normal schools, preparatory schools, and agricultural college. The lands so reserved are leased for the benefit of the schools named. In addition to Section 13, the enabling act, approved June 16, 1906, granted to the university 250,000 acres of land to be taken from any public lands within the state, remaining unfiled as homesteads on that date.

The legislature of 1909 provided for the sale of the second class of lands, the proceeds of such sale to be set aside for the university. The total value of land endowment and the proceeds from the sale of school lands is estimated at $3,670,000.

GROUNDS

The University of Oklahoma occupies a campus of one hundred and twenty acres. This includes, besides the original forty acres, twenty acres of land adjoining, given by the people of Norman in 1902, and sixty acres additional land lying contiguous to the original campus, which was obtained in 1914 in exchange for a section of land granted to the university by Congress in 1907. By this exchange the university

also secured a president's home and several lots adjacent to the campus.

The foresight of the early administration of the university provided for the planting of an abundance of trees, which have now grown to such proportions as to increase the natural beauty of the location.

Two athletic fields have been established on the campus, one for the men and one for the women. The athletic field for the men, known as Boyd Field, contains a quarter-mile running track, two gridirons, and two baseball diamonds. Alongside the field is a grandstand with seating capacity for three thousand people. The entire field is enclosed by a permanent hedge.

BUILDINGS

The first building, completed in 1893, was destroyed by fire in January, 1903. Old University Hall, completed in March, 1903, was destroyed by fire in December, 1907. Science Hall and the Carnegie Library were erected in 1904. The later buildings are planned in accordance with a systematic scheme for landscape and design.

University Hall

University Hall, completed in 1912, is a handsome structure of stone and brick, in the collegiate Gothic style. Its dimensions are 197 feet by 71 1-2 feet. It is fireproof throughout. It contains the offices of administration as well as a large number of class rooms. It stands almost on the site of the University Hall which was destroyed by fire in 1907.

Science Hall

Science Hall is a three-story building 63 feet by 125 feet, built of gray pressed brick, with limestone trimmings. This building was first used in September, 1904. The laboratories and recitation rooms for chemistry, pharmacy, pathology, geology, physiology, bacteriology, and botany are in Science Hall. The laboratories of the State Pure Food and Health Commissions are also located in this building.

Library

The library building is a gift from Andrew Carnegie. It is built of gray pressed brick, and consists of two stories and a basement. The general reading room, the offices, and the stack room are on the first floor. On the second floor is a large room used for general meetings. In the basement are special reading rooms, the offices of the Extension Division, and the offices of the Oklahoma Geological Survey.

Engineering Building

During the session of 1909-1910, a substantial building was erected for the College of Engineering. While the ultimate design for this building is that it shall be used for the shops, it is so constructed that it makes provision at present for the entire work of the college. The building is brick and stone, two stories high, 160 1-2 feet by 38 feet, with a one-story wing for the foundry, 38 feet, 10 inches by 30 feet, 2 inches. The whole is fire proof. It is adjacent to the university heating and power plant and is supplied with steam and power from this plant for the operation of all machinery in the college. The rooms of the second story give accommodations for the engineering library, for recitations, and all work in drafting. The entire west end of the first floor is used for shop work.

Monnet Hall

The new law building, was first occupied at the opening session in September, 1913. It is 128 feet long and 55 feet wide, with additional 14 foot entrance projections on the east and west. It is built of Bedford stone, its architectural lines following in the main those of University Hall. It is centrally located, overlooking the oval, and constitutes one of the wings of the permanent group of buildings of which University Hall is the center. It has three stories and a basement, and contains every feature necessary for a modern law school. This building is one of unusual beauty, solidity, and convenience. It is fire proof throughout. In the basement is located the Historical and Ethnological Museum, and the exhibit of the Geological Survey.

Medical Buildings

The anatomy building at Norman is situated west of the temporary buildings on the campus. The work of the other medical departments at Norman is conducted in University Hall and Science Hall. The work in Oklahoma City is carried on at 317 East Fourth Street, where recitation rooms, laboratories, and libraries are provided. The University Hospital is located at 325 East Fourth Street, Oklahoma City. It is a modern, thoroughly equipped hospital of sixty beds. The various hospitals and infirmaries of Oklahoma City, with which the School of Medicine is affiliated, are described in full in the special bulletin of the School of Medicine.

Gymnasium

The Gymnasium, built in 1903, is a frame building, 100 feet by 100 feet, divided into eight rooms. The main class room is 40 feet by 60 feet and 20 feet high, with a gallery seating 200 people; it is equipped with apparatus for drills, and for class and individual exercises.

Locker rooms for men and for women, containing in all 509 steel lockers, and hot and cold shower and spray baths, are provided. The wings, for lockers, are 16 feet by 80 feet.

Journalism Building

The School of Journalism is located in a frame building. There is a class room, laboratory, and office, and adjacent thereto, the university print shop.

Temporary Buildings

Besides the buildings mentioned above, there are several smaller frame buildings on the grounds that were erected to relieve the congestion caused by the burning of the main building in 1907.

These are used for class rooms, offices, laboratories and shops.

Work Shop

The Work Shop is a permanent brick building erected in 1914, one story in height, containing the carpenter shop, paint shop, lumber room, bath and locker rooms for the athletic teams, and office of the general manager of athletics.

Greenhouse

A greenhouse, ample in size to accommodate the most urgent present needs, was erected in 1914 for the use of the department of botany.

Heating and Power Plant

The buildings of the university are heated and lighted from a central plant recently built and equipped. This plant is connected by tunnels with the various buildings of the university. It supplies not only heat and light but all power used for the machinery in the various shops and laboratories. It is used also as an experimental plant by the students in mechanical and electrical engineering.

LABORATORIES

The university has the following laboratories, each with well selected apparatus and equipment to which additions are being made each year:

An anatomical laboratory.

A bacteriological laboratory.

Two botanical laboratories.

Several chemical laboratories including those for the State Pure Food and Health Commissions.

A civil engineering laboratory.

An electrical engineering laboratory.

Three geological laboratories and in addition those maintained for the State Geological Survey.

A journalism laboratory.

A materials testing laboratory.

A mechanical engineering laboratory.

A laboratory for pathology and histology.

A pharmaceutical laboratory.

A photometric laboratory.

A physical laboratory.

A physiological laboratory.

A psychological laboratory.

A telephone engineering laboratory.

A zoological laboratory.

COLLECTIONS

The botanical, zoological, and geological collections are excellent. In 1912 the Carroll collection of eggs, birds, animals and shells was purchased with the result that the university now has one of the best zoological collections in the southwest.

The School of Medicine has a good collection of gross and microscopic pathologic specimens.

The university historical and ethnological collections are being rapidly augmented. In addition to those owned by the university, several very valuable collections have been deposited with it or lent to it for safekeeping and exhibition. Among these may be mentioned the collection of Creek Indian pottery, basketry, bows and arrows, dance rattles, and ball sticks, which was gathered by the late Alexander Posey, the Creek Indian poet,; and the collection of antique arms and Indian relics, which was gathered by the late Temple Houston, of Woodward. Two prehistoric races of Oklahoma are represented in the collections by typical specimens of their handiwork, namely, the earth-house people and the cave dwellers, both collections having been secured in the eastern part of the state. A number of portraits, photographs, papers, manuscripts, documents and other valuable matter pertaining to the early history of Oklahoma and other western states have also been secured as a nucleus of a library and museum for use in practical research. These collections are appropriately housed in fire-proof quarters, and are displayed in suitable exhibition cases.

THE LIBRARIES

The general library is under the control of the library committee which is composed of the librarian as chairman, and two other members of the university faculty. It is administered with as few

rules as possible, the desire of those in control being to help the greatest number of users possible and with only such restrictions as may seem necessary. On regular school days the library is open from 7:45 a. m. to 6:00 p. m. and from 7:00 to 10:00 p. m. On Saturday the hours are from 9:00 a. m. to 5:00 p. m.

The library, including departmental collections and government publications which it receives as a government depository, numbers 22,319 volumes. Selection of the books has been made with much care, with the needs of a modern university constantly in view The Dewey decimal classification is followed. Government publications which may be of immediate use are being catalogued and shelved with the rest of the library according to subjects, a process which will be continued as time permits.

Students and officers of the university may draw out books for home use in accordance with the published regulations. Persons not connected with the university, but known to the librarian, are invited to make use of the books in the reference room of the library. Gifts to the library are gladly received and promptly acknowledged.

A library deposit of two dollars is required of all students.

Information about the use of the library, catalogue, and various indexes and library aids will be given on request.

The library of the School of Medicine at Oklahoma City contains a small but well selected list of text-books and works of reference. New books and publications are being added constantly. The reading room is supplied with the leading medical periodicals. The librarian is constantly in attendance to aid workers in their investigations.

The departmental library of the College of Engineering is situated in the engineering building. It contains books, magazines, and technical literature of value to the engineer.

The departmental library in geology is in Science Hall adjacent to the geological laboratories. It contains the important literature and maps pertaining to geology.

The law library is on the third floor of the law building. The books have been carefully selected. Other installments will be procured from time to time, as it is the purpose of the school to build up rapidly a library that will answer all the purposes of legal study and investigation. Several of the leading law journals are kept constantly on file. A member of the law faculty has general supervision of the reading room and student assistant librarians are in charge to give needed information and maintain order. The library is open during the day and in the evening.

UNIVERSITY PUBLICATIONS

The Bulletin: The Bulletin is the official publication of the university; it appears quarterly, in March, June, September, and December. Its object is to set before the public information about the different departments of the university, and to provide a way for the publishing of departmental reports, papers, theses, and such other matter as the university believes will be helpful to the cause of education in the state.

University Studies: University studies are published at irregular intervals. The publication now known as "University Studies" takes the place of the Research Bulletin which was published from 1909 until 1912.

The News-Letter: The News-Letter is a semi-monthly publication established to give official information concerning the work of the university.

STUDENT PUBLICATIONS

The University Oklahoman: The University Oklahoman is published twice a week by the students of the university.

The Sooner: The Sooner is an annual published by the junior class.

The University Magazine: The University Magazine is published once a month by students of the university.

NON-ATHLETIC ORGANIZATIONS

General Organizations

The Alumni Association: The Alumni Association was organized by the first graduates of the College of Arts and Sciences in 1898. All graduates of the university are now eligible to membership in the association.

The Student Association: The Student Association of the University of Oklahoma was organized in the spring of 1912. Every student in the university is a member of it. The executive committee of the association, is the Student Council, which is composed of the officers of the association and representives from each of the classes and departments. The aim of the association is to unify the student body, and control all activities not otherwise taken care of and all matters of general student concern.

The Athletic Association: The Athletic Association has control of intercollegiate and local athletic contests. It also has charge of the athletic grounds and equipment. Its executive body is a council composed of faculty, alumni, and student members.

The Oratorical Association: The Oratorical Association

manages the intercollegiate debates and oratorical contests. It is governed by a council composed of faculty and student members.

The Women's Council: The Women's Council, organized in 1912, is composed of one representative from each of the boarding houses and groups of houses in which women students room, and two representatives at large. The function of the council is to serve as a medium of communication between the different groups, and between these groups and the adviser of women, and to confer with the adviser of women on all matters of common interest and concern. The council establishes and enforces certain regulations affecting the social affairs of women students.

Debating and Public Speaking Societies, Law Club Courts

There are in the university several societies for public speaking, debating, study of special problems, etc. All non-athletic student organizations that may have relations with the public are under the control of the university. They must, on organization, present the plan of their proposed undertaking to the committee on non-athletic organizations and receive from the committee a certificate of approval. All organizations under the control of one or more members of the faculty and all literary and debating societies are required to furnish from time to time such information as may be desired by the committee.

The Senate: The Senate was organized in 1897 for practice in debate and parliamentary drill. It is for juniors and seniors only.

The Forum: The Forum was organized in 1898, and incorporated in 1901. It is devoted to literary work and practice in parliamentary principles.

The Websterian: The Websterian society was organized in 1903 for practice in general literary society work. It is associated with the Forum, and admits freshmen to membership.

The House of Representatives: The House of Representatives was organized in 1905 to cooperate with the Senate. It admits freshmen and sophomores.

The Sooner Bar: The Sooner Bar is a literary society for law students. It was organized in 1909.

The Zetalethean: The Zetalethean society was organized in 1904. It is a literary society for the women of the university.

The Eudelphia: The Eudelphia is a literary society for women. It was organized in November, 1914.

The Philologian: The Philologian Literary Society was organized in 1912. It is a literary society for women students.

The Chancery: The Chancery was organized in 1912 for practice in debating, parliamentary drill and for discussion of questions

arising in class room work and in the courts of justice. Its membership is confined to law students.

The Athenaean: The Athenaean Debating Society is an organization for law students. It was organized in 1914.

Club Courts: The Monnet, The Foster, The Williams, and the Madden Club Courts are organizations for the presentation and trial of questions of law. Membership is confined to law students.

Departmental Clubs

The Pick and Hammer Club: The Pick and Hammer Club was organized in 1906 for the purpose of keeping students informed as to recent geological literature and of giving them an opportunity to present results of field investigations.

The Humanist Club: The Humanist is an English club organized in 1907.

Teutonia: Teutonia is a German club organized in 1907 to give students in the department practice in the German language and familiarity with German literature.

Causerie: Causerie is a club organized by students in the French classes for practice in the French language and familiarity with French literature.

The Chemistry Club: The Chemistry Club was organized in 1908 to stimulate interest in chemistry and to furnish an opportunity for reports on original work.

The Engineers' Club: The Engineers' Club, organized in 1910, includes faculty and student members. It holds meetings once a month, at which specially prepared papers on engineering subjects are read and discussed.

American Institute of Electrical Engineers: The University of Oklahoma branch of the American Institute of Electrical Engineers was organized in 1912. It is an official branch of the parent organization. Its membership is from the students in the School of Electrical Engineering.

The Stockonian Pharmaceutical Club: The Stockonian Pharmaceutical Club was organized in 1913 for the purpose of having discussions on topics of current pharmaceutical and scientific interest. It is literary in its aims.

The Social Science Club: The Social Science Club, organized in 1913, consists of faculty and student members interested in the study of current political and social problems.

Camp Fire Girls: The organization of Camp Fire Girls was established at the University of Oklahoma in 1913. Any girl in the university is eligible to membership.

The Business Opportunity Club: The Business Opportunity

Club was organized in 1914. Membership is confined to the students in the School of Commerce and Industry. The purpose of this club is to find out what opportunities there are for students after graduation. Meetings are held twice a month and lectures are given by prominent business men.

Oklushe Degataga: The Indian students in the university organized the Oklushe Degataga club in the spring of 1914. The name means "Tribes Standing Together."

The Mechanical Engineering Society: The Mechanical Engineering Society was organized by students in mechanical engineering in December, 1914.

The Zoological Journal Club: The Zoological Journal Club was organized in 1914 by the students in zoology.

The Light and Shade Club: The art students of the university organized the Light and Shade Club in 1914.

Spanish Club: The Spanish Club, organized in 1915, is composed of students of Spanish. Its object is practice in speaking Spanish.

Musical and Dramatic Organizations

Various musical organizations in the School of Fine Arts are described in the bulletin of that school. They include the orchestra, band, glee club for men, glee club for women, choral union, opera cast, and the like. For further information see "Organizations," School of Fine Arts.

The Sooner Dramatic Club: This club dates from the year 1912. It was organized to secure "a more thorough knowledge of the drama, and practice in the dramatic art." It is under the charge of the instructor in expression, and members are selected "for their literary attainments, their character and standing."

The Kanuntaklage Klub, a dramatic society, was organized in 1912.

County Clubs

The students from many of the counties in Oklahoma have organized clubs for the purpose of mutual benefit and of making the university favorably known in their home counties.

Senior Honor Societies

Pe-et: Pe-et is a senior honor organization for men. It was established in 1910. The members each year select ten successors from the junior class, the choice being based chiefly upon scholarship.

The Owl and Triangle: The Owl and Triangle, a senior honor society for women, was organized in 1912. The members are chosen largely because of their scholastic ability. The seniors each year select the eight members from the junior class who rank highest.

Professional Fraternities

The University of Oklahoma has been selected by six of the national professional fraternities as a suitable place for establishing chapters of their organizations.

Phi Delta Phi: Phi Delta Phi is an honorary law fraternity. The local chapter was established in 1912.

Phi Mu Alpha: Phi Mu Alpha is a national musical fraternity for men, frequently known as Sinfonia Fraternity. The local chapter was established in 1912.

Phi Beta Pi: Phi Beta Pi is an honorary medical fraternity. The local chapter was established in 1912.

Sigma Delta Chi: Sigma Delta Chi is a national journalistic fraternity. The local chapter was established in 1913.

Phi Delta Xi: Phi Delta Xi is a national pharmaceutical fraternity. The local chapter was organized in 1913.

Delta Sigma Rho: Delta Sigma Rho is a national debating fraternity. The local chapter was established in 1913. Membership is confined to those who have represented the University of Oklahoma in intercollegiate debating and oratorical contests.

Military Organizations

Engineering Corps: Company A, Engineering Corps, Oklahoma National Guard, was established at Norman in May, 1913. Men over 18 years of age are eligible. The present officers of the corps are from the faculty of the School of Civil Engineering of the university.

Signal Corps: Field Company A, Signal Corps, Oklahoma National Guard, was established at Norman in June 1913. This is the only signal corps in the state. Drill is given in wire and wireless telegraphic work in army signaling. Two of the present officers of the corps are from the faculty of the School of Electrical Engineering of the university.

These two military organizations maintain an armory in which drills are held regularly. Considerable out-of-door work is done each year. The organizations are well supplied with suits, arms, field equipment, signaling equipment, and other material which is regularly furnished by the United States Government.

INTERCOLLEGIATE CONTESTS

Intercollegiate Debates: The University of Oklahoma contests annually with neighboring colleges in debate. All contracts and arrangements are made by the council of the Oratorical Association.

In the past the university teams have competed successfully with the universities of Missouri, Kansas, Arkansas, and Colorado.

Intercollegiate Oratorical Contests: The university contests annually with colleges in Oklahoma and in neighboring states.

Intercollegiate Athletic Contests: Intercollegiate contests (subject to conditions regarding membership, team organization, and leave of absence imposed by the faculty), are held each year with other universities and colleges of the southwest. All contracts and arrangements are made by the general manager of athletics with the approval of the athletic council.

ATHLETICS

The athletic sports and games of the University of Oklahoma are under the direction of the Athletic Association and the Athletic Council. The association is an organization of students for the encouragement and development of athletic sports. The council is made up of nine members: four students, four members of the faculty, and one alumnus. The four student members and one of the faculty members are elected by the athletic association; the alumnus, and the other three faculty members are appointed by the president of the university.

The athletic council has full control of all athletic sports, of the athletic grounds, and of all funds and properties of the association. It appoints all delegates to the conferences of any athletic association of which the University of Oklahoma is a member, selects all coaches, and awards all athletic honors. It also decides all questions as to the eligibility of players except those that have to do with scholastic standing, which are decided by the committee on eligibility. It is also vested with the right to award all athletic emblems.

The committee on eligibility is a committee of three appointed by the president of the university from the members of the faculty. It administers the regulations as to the number of hours and the quality of work that must be carried by students before they are permitted to play on any athletic team.

Eligibility in Athletics

1. A person eligible to compete in any intercollegiate contest must be regularly enrolled for and must be maintaining his class standing in at least twelve hours of work, and must be enrolled not later than thirty days after the opening of the semester in which the contest takes place.

2. At least once during the semester the committee on eligibility shall investigate the class standing of the several members of the

teams, and shall report to the general manager the names of those found deficient.

3. The investigation for the first semester shall be on or before the first of November, and for the second semester shall be on or about the first of May, and at such other times as the committee shall desire

4. A student may not compete in any intercollegiate event whose standing at the investigation shall fall below "C" in more than one subject until such deficiency shall be made up to the satisfaction of the instructor or instructors concerned.

5. A student failing to pass unconditionally in at least twelve hours of work in any semester may not compete in any intercollegiate event during the next semester he is enrolled. This rule may be waived by the committe on eligibility in case of a student who receives a certificate of honorable withdrawal on account of sickness or other unavoidable cause; of one who enrolls after the close of the foot-ball season; and of one who removes conditions, increasing the total of his credits for the preceding semester to twelve hours not later than the first Saturday of the semester following the one in which the conditions were received; but this shall not be construed to entitle any such student to ask for a special examination for the purpose of endeavoring to remove conditions. This rule shall however in no case violate rule 1.

6. Technical work in the School of Fine Arts, except for students regularly enrolled in that school, and the work in physical training shall not be counted in making the required twelve hours. Students enrolled in the School of Fine Arts must be enrolled in at least seven hours in subjects leading to the degree of B. M. or the certificate in art, that are not included in prescribed technical work, and must be maintaining their standing in such a way as to satisfy their instructors that they will complete at least one-half of a group in a semester as prescribed in the current catalogue. Students in art must spend at least fifteen hours a week in technical work in the art studio.

7. Unclassified students eligible to compete in intercollegiate events must have no fewer than eight units of entrance credit.

8. The term "intercollegiate contest" shall be construed to mean any contest in which the university is officially represented by a team.

General Manager of Athletics

A general manager of athletics, designated by the management of the university, works under the direction and approval of the athletic council. He has charge of all business affairs of the council, makes all schedules and contracts with other schools, keeps the records

of the teams and players, accompanies the teams from home when necessary, and is charged with the enforcement of all rules of eligibility.

THE INTERSCHOLASTIC MEET

The Interscholastic Meet for locally supported high schools was established in the spring of 1905. The contestants come from the various high schools of the state, and the meet takes place every spring on the last Thursday, Friday and Saturday of April, at Norman, on Boyd Field. The Interscholastic Meet includes track and field contests; a tournament in tennis singles; a tournament in tennis doubles; a championship baseball series; musical contests for three scholarships in piano, three in violin, six in voice including three for girls and three for boys; a boys' glee club contest, a girls' glee club contest; an orchestra contest; an art contest; a dramatic reading contest; an oratorical contest; and contests to decide the championship in the Oklahoma High School Debating League series. Inquiries concerning this meet should be addressed to the Interscholastic Meet Committee, University of Oklahoma, Norman, Oklahoma.

MORAL AND RELIGIOUS TRAINING

Religious exercises, consisting of scripture readings, singing, and prayer, are held once a week in the university assembly. At these exercises a special lecture or address by some noted speaker, is given each week. Although attendance is voluntary, the purpose of cultivating the moral, religious, and social spirit of the university is heartily recognized. Weekly prayer meetings are held by the Christian associations of the university.

The Christian Associations: The Young Men's and Young Women's Christian Associations are the centers of the religious life of the university, and they are active in all forms of moral and Christian work properly within the scope of such organizations. All students are invited to membership, either active or associate. The Y. M. C. A. holds devotional meetings every Sunday afternoon at 4:30 o'clock. The Y. W. C. A. holds devotional meetings every Monday afternoon at 4:30 o'clock. In addition to these meetings the associations carry on social work, and they aim to become a practical help to the students in their university life. Members meet new students at the trains, aid them in securing suitable rooms and boarding places, hold receptions at the opening of the year and at various other times. The secretary and officers of each association are glad to be helpful on all occasions.

Y. M. C. A. Secretary: The Y. M. C. A. now maintains a per-

manent general secretary, who devotes his time to the work. He acts also as secretary of the students employment bureau.

Y. M. C. A. Building: In 1914 the Young Men's Christian Association acquired a house which is used as a Y. M. C. A. Building. This property, which faces the campus, contains the office of the Y. M. C. A. secretary.

City Churches: The churches of Norman extend a cordial invitation to students to join them in their work.

ADVISER OF WOMEN

In June 1908, the office of dean of women was created. In 1912, this office was superseded by that of the adviser of women. The purpose of the office is to give advice and assistance to the women students of the university whenever requested, and to provide control and direction if such becomes necessary. It is especially desirable that young women who are away from home influences should have some one to whom they may look for confidential advice with reference to many matters affecting their welfare as women and as students. The adviser of women has jurisdiction over all social matters that concern the welfare of women students. Women students will not be allowed to participate in functions not approved by the adviser of women.

FEES AND DEPOSITS

Tuition is free in all departments of the university. Students taking private lessons in the School of Fine Arts must pay the fees described below. All students will be held responsible for damage to or loss of equipment and instruments, and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

In all laboratory courses students must pay the actual cost of material used. In some courses a fixed charge based upon the estimated cost of material is made and must be paid before beginning the work. In most laboratory courses a laboratory coupon book costing three dollars must be purchased by the student for each course and deposited with the instructor. From this book the cost of materials issued to the student will be taken at the time of issue. Such additional coupon books as may be necessary must be purchased from time to time. Any unused portion of such laboratory coupon books will be refunded in cash at the end of the year, or when the student leaves the university, provided he notifies the financial clerk at the

time of departure that he must withdraw; but no such refund will be made after the close of the fiscal year, July 1.

The fixed charges are as follows:

Clerical fee for late registration	$ 2.00
Clerical fee for re-enrollment after withdrawal	2.00
*Clerical fee for each "change of studies" card or "re-instatement" card	1.00
Clerical fee for duplicate statement of credits	1.00
Anatomy 2	15.00
Anatomy 3	10.00
Anatomy 4	5.00
Botany 1, 3, 4, 101	1.00
Botany 2	1.50
Botany 102	2.50
Materia Medica 4	1.00
Physiology 1	2.00
School of Medicine, third year laboratory	10.00
School of Medicine, fourth year laboratory	10.00
Hospital fee, (Oklahoma City) each hospital	5.00
Library deposit	2.00
Student enterprise ticket	5.00

*This does not apply during the first two weeks of the semester.

In the following courses laboratory coupon books must be purchased, one for each course. The cost of these will vary for different students, but will be approximately as follows:

Anatomy 1	$ 2.00
Bacteriology 1, 101, 102, 103, each	5.00
Bacteriology 3	3.00
Botany 104, 105	3.00
Chemistry 2, 3, 51, 101, 125, 152 each	5.00
Chemistry 1, 4, 5, 6, 7, 102, 103, 104, 105, 106, 107, 108, 122, 123, 124, 126, each	10.00
Embryology 1	3.00
Geology 102, 103, each	3.00
Materia Medica 5	1.00
Histology 1	2.00
Pathology 1, 2, 102, 103, each	3.00
Pharmacology 1	3.00
Pharmacy 2, 3, 5, 7, 8, 9, each	5.00
Physiology 1, 2, 3, 5, 6, 7, each	3.00
Shop 1, 3, 4 each	3.00
Shop 2	5.00
Zoology 1, 2, 100, 102, 103, 200, 201, each	3.00

Each student is required to pay $2.00 as a library deposit. At the

close of the school year, or sooner, if the student withdraws from the university, this deposit will be refunded after fines for breaking library rules or misusing books have been deducted.

Students who do not complete their enrollment by the time the first classes meet each semester will be charged a fee of $2.00 for extra clerical labor.

A duplicate copy of the "Statement of Credits" handed each student at the time of registration each semester can be secured only upon payment of a fee of $1.00 to cover extra clerical labor.

The fee of $5.00 for a student enterprise ticket will be collected from each student. This ticket entitles the student to admission to lecture course numbers, and to debating, athletic, musical, oratorical, dramatic, and other general university affairs. The payment of this fee is not compulsory but it is expected that each student will purchase the ticket because of the many advantages accruing therefrom, and because it is necessary that every student buy one in order to make this plan of supporting student affairs a success. It is hoped, therefore, that the loyalty of the students toward the general interests of the university will be such that there will be no requests for exemption from this payment.

Fine Arts Fees

Tuition is free in all courses offered in the School of Fine Arts. For individual lessons the university collects fees for the respective instructors as follows:

For preparatory music, piano, voice or violin, two thirty-minute lessons a week, $18.00, $27.00, or $36.00 a semester depending on which instructor is chosen.

For applied music (piano, voice, violin) Groups I, II, III, or IV, two thirty-minute lessons a week, $18.00, $27.00, or $36.00 a semester depending on which instructor is chosen.

For instruction in band and orchestra instruments, two thirty-minute lessons a week, $18.00 a semester.

For water-color or china painting, two four-hour lessons weekly, $27.00 a semester.

For courses in expression, first, second, or third year, two thirty-minute lessons a week, $27.00 a semester.

Fees are payable strictly in advance and no lessons will be given until a receipt from the financial clerk is presented to the instructor.

Fees are not refunded except when a student must discontinue his lessons for unavoidable cause.

Students absent from more than one-third of the lessons for which

they are enrolled in applied music or expression will be dropped and no fees will be refunded.

In the courses in drawing and painting, students must pay for their own material.

BOARD AND ROOMS

Board, including furnished rooms, can be had for from $4.00 to $6.00 a week. The average cost of living is as low in Norman as in any other town of its size in the state. The general advance in prices, however, so noticeable during the past several years, has increased the cost of living here as elsewhere. Although the increase is not serious, it should be borne in mind; for whereas several years ago plain table board could be had for $2.00 a week, it costs now from $3.00 to $4.50. Rooms for two may be secured for $6.00 to $14.00 a month.

Board and Rooms

Students who desire assistance in finding rooms and board should apply to the Y. M. C. A. Secretary. Women should consult the Adviser of Women.

DORMITORIES

The following dormitories have been established by various religious organizations for the purpose of providing for the students homelike surroundings under Christian influences. Each of them is equipped with modern conveniences, including steam or furnace heat, and is in charge of a competent matron or superintendent.

King Hall, a dormitory for young women, was opened in September, 1910. This is owned and controlled by the Protestant Episcopal Church. Those interested should address the Matron, King Hall, Norman, Oklahoma.

The Young Women's Christian Association dormitory was opened in September, 1914. It is controlled by the Young Women's Christian Association of the university, and is open to all women students. Those interested should address, The Y. W. C. A., Norman, Oklahoma.

The property owned by the Young Men's Christian Association, furnishes living accommodations for a limited number of men. Inquiries should be addressed to the Y. M. C. A., Norman, Oklahoma.

The Christian Church dormitory is in the Christian Church building. It accommodates about thirty men and is open to all men attending the university. Those interested should address the pastor of the Christian Church, Norman, Oklahoma.

OPPORTUNITIES FOR SELF SUPPORT

There is work to do at the University of Oklahoma and in the city of Norman by which students may support themselves wholly or in part

while attending school. The university can not promise employment to any one, and it does not encourage young people to enroll who are entirely without resources, but it does assist deserving students who show a willingness to help themselves. The Young Men's and Young Women's Christian Associations are active in helping students, and lists of places where work may be had are furnished the office each term. The Young Men's Christian Association secretary is secretary of the student's employment bureau. Every year students add to their income by their labor outside of school hours; but they rely on their own ability, industry, and character in all cases. Those older in residence and known to be capable have the better opportunity. The business men of Norman and the citizens in general are in sympathy with the young people of the university and favor them whenever possible. Those with trades—stenographers, printers, etc., find work as readily in Norman as they would in any other Oklahoma town of 4,000 inhabitants. Others can get odd jobs to do by the hour. Students who must work their way are usually advised to plan for an extra year in which to finish their course. Those desiring to secure work should address, The Secretary, Student Employment Bureau, University of Oklahoma, Norman, Oklahoma.

SCHOLARSHIPS AND PRIZES

Fellowships and Scholarships: Appointments to fellowships and scholarships are usually made upon the recommendation of the head of the department concerned. Students who have done work in residence at the university are, as a rule, chosen for these positions. Fellowships as a rule are awarded to candidates for a graduate degree, while scholarships are given to undergraduate students. The value of the fellowships and scholarships depends upon the nature and amount of work to be done. For the year 1914-15 the following fellowships and scholarships were awarded:

Fellowships in chemistry, English, art, and electrical engineering. Scholarships in anatomy, botany, chemistry, drawing, electrical engineering, French, geology, German, Latin, medicine, pathology, pharmacy, philosophy, physical education, physics, physiology, public speaking, and zoology.

The Garber Cup: In May, 1906, Judge M. C. Garber, of Enid, presented to the Forum and Senate debating clubs a trophy cup for excellence in public speaking and parliamentary practice, which is contested for annually by these two societies.

The Render Medals: Through the courtesy of Samuel P. Render,

Esq., of Oklahoma City, the Oratorical Association and the School of Fine Arts are holders of gold medals to be contested for annually.

Debating Prizes: Several small prizes are offered in the preliminaries for intercollegiate debates.

The Butte Debating Prize: Hon. George C. Butte, of Muskogee, in 1910 established a prize of twenty-five dollars to be awarded to the university student receiving first honors in debate. Mr. Butte offers this prize annually for ten years.

American Law Book Company Prize: The American Law Book Company offers to a third year student in the School of Law a prize consisting of the first thirteen volumes of the Cyclopedia of Law and Procedure, to be awarded at the discretion of the law faculty. This prize, valued at $97.00, the faculty has decided to award at the time of graduation to the most meritorious student in the third year class, taking into consideration the entire course. The award is based on grades in examinations, class-room proficiency, ability in logical and succinct statement, interest displayed in club courts and other law school activities, use of the library, and strength of character.

Callaghan & Company Prize: Callaghan & Company, law publishers of Chicago, offer the Cyclopedic Law Dictionary as an annual prize to the student in the second year law class who attains the highest proficiency and the best general average for the year.

The Blackstone Institute Prize: The Blackstone Institute of Chicago offers Modern American Law, a fifteen volume legal encyclopedia, valued at $75, as an annual prize to the third-year student presenting the best thesis on some local or special jurisdiction subject designated by the faculty.

Letzeiser Medal: Through the courtesy of Letzeiser & Co., of Oklahoma City, a gold medal, known as the Letzeiser medal, is given each year to the best all-round student in the university. The points considered in making the selection are: scholarship, 40 per cent; general activities, 30 per cent; literary work, 15 per cent; athletics, 15 per cent. The winner is selected by popular vote of the student body.

The Sims Oratory Prize: Mr. Neil Sims, of Stigler, established in 1913 an annual prize of $25 in gold, to be awarded at the direction of the department of public speaking. The prize for the year 1915 was given for the best prohibition oration.

Rhodes Scholarship: The Cecil Rhodes scholarships are of interest to all the colleges of the state. Each scholarship gives the student three years in Oxford University, in England, and carries with it a stipend of nearly $1500 a year, which will pay the expenses for college life at Oxford and for some continental travel during the summers. The examinations for the Rhodes scholarships are held at the University

of Oklahoma each year. These examinations are qualifying, not competitive, the scholar being selected from among those passing the examination after considering literary and athletic ability, qualities of manhood, moral force of character, etc.

The next scholarship assigned to Oklahoma will be available for 1917, but the examination may be taken either in October, 1915, or in October, 1916.

Inquiries for further information about the Rhodes scholarships should be addressed to the Secretary of the University of Oklahoma, Norman, Oklahoma.

John Barbour Prizes: Prizes are offered to the senior and junior classes in the School of Pharmacy by John Barbour, a graduate of the school, as follows:

1. Recommendation to membership in the American Pharmaceutical Association, with one year's dues to each of two seniors who receive the highest grades in all courses pursued during their senior year.

2. A leather bound indexed copy of the National Standard Dispensatory to the junior student who receives the best average grade in all branches.

CERTIFICATES FOR TEACHERS

Graduates and undergraduates of the university may receive first grade teachers' certificates under certain conditions which are set forth under "Certificates for Teachers" in the "School of Education."

An examination of candidates for any one of the various grades of state certificates is held at the university the last Thursday, Friday, and Saturday of May and of July.

RAILWAY CONNECTIONS

Norman is easily reached by way of the Santa Fe railway.

The interurban line furnishes hourly service between Norman, Oklahoma City, El Reno, Edmond, Britton, Yukon, and Moore, and makes it convenient for students living in these towns, or changing cars at Oklahoma City, to reach Norman without delay.

OFFICIAL NOTICES

Students should watch the bulletin board for notices. An official notice, properly posted, is considered sufficient information to students of any necessary changes in program or of other changes of a similar nature.

THE UNIT OF CREDIT

The "hour" as used in the university, is understood to mean one hour of class work with at least two hours of preparation, or the equivalent, i. e., three hours of laboratory or field work, each week, for one semester.

INFORMATION ABOUT ENROLLMENT

Method of Enrollment

The plan of registration in effect at the university requires each student to make out his own enrollment. Careful study of the catalogue and reference to the semester program will enable the student to enroll himself properly. Any student desiring assistance in making a proper selection of studies may secure it from his official adviser (freshmen in the College of Arts and Sciences should consult the dean and not the freshman advisers); but neither the adviser nor the university assumes any responsibility whatever for seeing that the student arranges his work so that he can complete the requirements for graduation.

How to Enroll

1. New students should first secure a certificate of admission. (For full information, see Admission.)

2. An information card and a "Request for Enrollment" card should be obtained at the registry office.

3. On the "Request for Enrollment" card the subjects desired should be listed. Conflicts between classes must be avoided, and the regulations of the school or college in which the student enrolls must be complied with as well as the requirements for graduation. No credit is given for courses not properly elected.

4. The following regulations govern all students. For additional information the student should refer to the description of work in the school or college in which he desires to enroll.

a. No student is permitted to enroll for an excessive amount of work. The limit of hours is at the discretion of the faculty of the school or college in which the student is enrolled.

b. Except for extraordinary cause students enrolled in schools which have a prescribed course, such as law, medicine, pharmacy, and engineering, will not be permitted to vary from the regular schedule of work.

c. Prescribed subjects should be chosen in preference to electives, and subjects to make up deficiencies, if there are any, in preference to any other subjects.

d. Courses the equivalents of which have been credited for entrance, may not be elected for college credit.

e. All students entering the university are required to take the prescribed work in physical education during the first year. This does not apply, however, to students entering with at least one year's work of college rank, accepted in full by the university. For a sufficient reason the faculty may excuse a student from complying with this requirement in whole or in part. Students enrolled in courses in physical

education may be excused from classes by the director of physical training while engaged in systematic participation in athletic sports under the direction of the athletic director or coach.

f. No beginning work in a foreign language is credited toward a degree, or toward the removal of entrance conditions, unless carried satisfactorily through both semesters.

g. Students enrolling in classes which are given in more than one section should put on the "Request for Enrollment" card simply the course number. The assignment to a section will be made by the registrar shortly before the opening of the semester and the assignments will be posted on the bulletin board in University Hall. The student's preference of sections may be indicated on a card provided for that purpose and will be followed as closely as possible.

h. A student failing in a subject required for graduation must, if possible, take it again the next time it is given.

i. Special privileges may be obtained only from the dean.

5. After the "Request for Enrollment" card has been filled out and signed, it should be left at the registry office for the approval of the registrar. If the choice of subjects is not regular, the registrar will notify the student either to make such changes as are necessary or to secure the approval of the dean.

6. After the approval of the registrar has been secured, the student will file the card with the financial clerk and pay the prescribed fees. The enrollment is not complete until this is done.

7. All women students must secure a registration card from the adviser of women, and present it, with the "Request for Enrollment" card, to the financial clerk when the fees are paid. Those enrolling by mail, however, may register with the adviser of women after their arrival in Norman.

8. No instructor will admit a student to a class in which he is not regularly enrolled, nor will credit be given for a subject pursued without registration.

9. Late registration should be avoided. Students may not enroll for a full course at a late date.

10. No student will be allowed to change from one college or school to another without the written certificate of honorable dismissal from the dean of the school last attended, and such change will not be granted later than two weeks after the opening of the semester.

11. Work may be taken in more than one school, subject to the approval of the deans concerned.

Advisers About Enrollment

New students, freshmen, and unclassified students wishing advice before filling out the "Request for Enrollment" card should confer with

the dean of the school or college in which they desire to register; all other students should confer with their major professor (in the College of Arts and Sciences) or their director (in the College of Engineering), or with the dean of their school or college.

When to Enroll

It is urged that every student, old or new, complete his enrollment either in person or by mail prior to the opening of the semester. This may be done at any time after the semester program is issued. Fees need not be paid, however, till the second Saturday preceding the opening of the session, as indicated below. This applies to the summer session as well as to the regular school year.

1. New students and those not in attendance during the session previous to the one in which they desire to enroll, may complete their enrollment at any time before the opening of the semester, including the two days set apart for registration at the beginning of the semester. All deans, directors, and major professors will be in their offices during these two days to assist new students with their enrollment.

2. Students attending the university during the session previous to the one in which they desire to enroll must complete their enrollment before the second Saturday noon preceding the opening of the session. Students failing to do this may not enroll until after the two registration days mentioned in the preceding paragraph, but may enroll at a later date upon payment of the fee for late registration.

3. Students attending the university during the second semester, or the summer session, who expect to enroll for the fall semester following, should file their "Request for Enrollment" card with the registrar and ascertain the amount of their fees before examinations begin. The enrollment should be completed by payment of the fees not later than the second Saturday noon preceding the opening of the fall semester.

Fee for Late Registration

Any student enrolling after the close of the regular registration period will be required to pay a fee of $2.00 for extra clerical labor.

Change of Studies

A student desiring to make a change in his enrollment within two weeks from the first class day of the semester may do so by securing the approval of the registrar. No change of studies will be permitted after that date except for extraordinary reasons, and then only upon the approval of the dean and the payment of a fee of $1.00 for extra clerical labor. Blanks for such change may be secured at the registrar's office and must be filed with the financial clerk in the same

manner as the original study card. Membership in the class does not cease until the card is filed with the financial clerk.

Absence From Recitation

To pursue work properly in the university a student should be present at each meeting of the class. If he is obliged to be absent from any recitation or lecture on account of sickness, or other unavoidable cause, he should report promptly to the instructor the reason for the absence. Violation of the above subjects the student to such penalties as may be imposed at the discretion of the several faculties.

Students (except in the School of Law) who are absent from class twice as many times as the class meets each week are automatically dropped from the class and will receive a mark of failure in the course. It is within the discretion of the dean and the instructor to reinstate such students. Absences immediately preceding or following a regular holiday or recess count double.

Withdrawal

Permission to withdraw from the university before the close of the semester should be secured from the dean and filed with the registrar. Otherwise a certificate of honorable withdrawal or a refund of deposits will not be granted, and the student will receive a mark of failure in all courses. (In the College of Engineering a student may not receive honorable withdrawal from a class in which his standing is unsatisfactory).

Examinations

An examination at the end of each semester closes the work to that point.

Reports to Parents and Guardians

As soon after the close of the semester as all the grades are reported to the registrar, duplicate reports of the student's class standing will be made out, one copy of which will be mailed to the student's parent or guardian, and the other copy handed or mailed to the student upon request.

Passing Grades

Students' grades in all courses are filed with the registrar and the records in his office are the official records of the university. The passing grades used are A, A minus, B, B minus, C, C minus. A grade of "A" means excellent; "B", means good; "C", means poor.

Conditions and Failures

A student who fails to complete the work of any course will receive a mark of F, D, or I. "F" means failure. "D" and "I" both

mean conditioned. "D" means conditioned because of poor quality of work for which no credit is granted except upon re-examination and no grade higher than a "C" can be given. "I" means that a good student with a class standing of "C minus", or better, has failed to complete some small portion of his assigned work. Instructors giving an "I" must state upon the reverse side of the report card the portion of the work incomplete.

Conditions of "D" or "I" must be removed within a year if credit for the work is desired. A mark of "F" is recorded for all "D's" not removed in this time.

Excessive Absences

Students receiving a mark of failure or condition in more than one-third of the work in which they are enrolled in any semester forfeit their connection with the university. It is within the discretion of the faculty to reinstate such students on proper petition and showing.

THE UNIVERSITY EXTENSION DIVISION

OFFICERS

Angelo C. Scott, A. M., LL. M.
Director of Extension Lectures, Extension Classes, and High School Debating.

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PURPOSE

University Extension is one of the means by which the modern university endeavors to serve the entire population of the state; it is a link connecting every professor and instructor in the university with the entire citizenship of the state. So its value and merits are not its own as a separate department, but belong to the university as a whole, since there can be no university extension unless there is a university to be extended; and the almost unlimited service which university extension can render keeps pace with the development of the university.

Organization

The University Extension Division of the University of Oklahoma includes six departments:

1. Public Discussion and Debate. This department promotes and assists debating, especially in rural schools and farmers' clubs. Bulletins on important subjects for debate are issued, giving the results of wider reading than is possible to the average citizen. A Debaters' Manual of Parliamentary Practice and Argumentation has been published, also bulletins on "The Initiative and Referendum," "Unicameral Legislatures," "Guaranty of Bank Deposits," "Woman's Suffrage," "Consolidation of Rural Schools," "Preferential Primaries," "Government Ownership of Railways," "Single Tax." "Workman's Compensation" and others are in preparation. Since debate bulletins must give each side a chance to win, their value to the general reader is be-

ing recognized. No other instrumentality gives so complete, impartial, and authoritative information on both sides of important public questions. More than 88,000 of these bulletins have been issued during the year. They have been used by organizations other than debating clubs in Oklahoma, and there has been a considerable demand for them in other states, especially Indiana, North Dakota, Tennessee, Arkansas and Kansas.

II. Correspondence Study. This department aids those who cannot attend the university to avail themselves of its service. By its means a student may take at least half of a university course while remaining at home and engaging in gainful occupations. Students temporarily compelled to leave the university may keep up with their class in at least a part of their work. By attending the Summer Session and supplementing it with correspondence work many students may in time complete a college course. Graduate students may take by correspondence fourteen hours of the work required for the master's degree. This will enable many superintendents and principals to advance their education while doing their life work. More than 700 courses are now offered by this department.

III. Public Information and Welfare. This department endeavors to furnish information on all subjects pertaining to the public welfare. In every university there are vast accumulations of knowledge for use in class work and for original research. This department endeavors to make this available to the entire state. The work is usually carried on under various bureaus. The municipal reference bureau gathers and distributes information concerning municipal matters such as water, light, paving, drainage, sanitation, fire protection, cleaning, policing, parks, amusements, and all other matters pertaining to municipal management. The state Municipal League has combined its bureau of information with this bureau. A commercial reference bureau gathers information concerning everything pertaining to business,—commerce, manufacturing, markets, methods, inventions, and everything of importance to business men. A legislative reference bureau gathers information needed by legislators and public officials,—laws on all subjects, methods of dealing with various social problems in our own and other lands, etc., thus enabling them to profit by the world's experience. The bureau of social center development aids in bringing about harmony and co-operation in communities and in rendering democracy more efficient. These departments are not new institutions; they only enable the state to utilize what it already has.

A beginning has been made in the holding of conferences on important subjects of public interest. On December 8-9, 1914, a

conference on taxation was held at the university. Tax authorities and experts were brought from Wisconsin, Kansas and Texas, and all who attended were greatly pleased and profited, many expressing the opinion that such conferences open up a vast field of useful service to the state.

Similar to these conferences was the "Merchants Short Course", given at the university and Oklahoma City, January 11-14, 1915. This was well attended and aroused great interest. The conference program was arranged by the School of Commerce and Industry.

The ideal of the Extension Division is that when any department of the university sees an opportunity to render some special and useful service to the state, it finds in the Extension Division an organization designed to assist it.

IV. Extension Lectures. This department furnishes lectures, either single or in courses, on a great variety of subjects. Three hundred and sixty-eight lectures and other entertainments were given by members of the faculty during the first year (1913-14), in one hundred and fifty-eight towns and communities. These were given free of charge to these towns and communities, except as to traveling expenses. The university orchestra, glee club, and soloists are available for concerts without charge except expenses. The possibilities of this department for public instruction and inspiration are limited only by the appropriation for it.

V. Extension Classes. This department endeavors to organize wherever there are enough students, regular university classes to do work in the freshman classes of the university though remaining at home. A small amount of state aid would enable this department to establish a great many such classes in many communities of the state. These classes do regular university work for which they receive university credit. Classes have been maintained this year in German, French, Spanish, English, and history.

VI. High School Debating. This differs from the department of public discussion and debate in that high school debating clubs are composed entirely of students. The same debating bulletins are used in both, and briefs, bibliographies, and other information furnished on a constantly increasing number of subjects. This department cooperates with the department of public speaking of the university and with the State High School Debating League.

Rural Traveling Libraries

A beginning has been made in sending out libraries which supplement the bulletins on the various subjects treated by them. In order to make them of value to the entire community many other

books have been added, covering a wide range of information and interest. These libraries are divided into small collections of twelve to fifteen books each, and are lent free of charge to any community or rural school for a period of not exceeding four weeks. To protect the state, each applicant is required to give security for the proper care and safe return of the books. Forty-five libraries are now in use.

The most that can be done here is to outline briefly the work of this division. Full particulars will be furnished on application. To save labor and delay all inquirers are requested to address,

UNIVERSITY EXTENSION DIVISION,
Norman, Oklahoma.

THE OKLAHOMA GEOLOGICAL SURVEY

Officers

CHARLES WILLIAM SHANNON, A. M.
Director.

LUTHER CROCKER SNIDER, A. M.
Assistant Director.

LAWRENCE EMORY TROUT, M. A.
Field Geologist.

FRITZ AURIN, B. A.
Chemist.

FRANK GAHRTZ
Draftsman.

MISS CHARLIE NICKLE.
Chief Clerk.

GENERAL STATEMENT

The Oklahoma Geological Survey was established in 1908. The law creating the survey located it at the University of Oklahoma. The objects and duties of the survey, as stated in the law establishing it, are:

"First: A study of the geological formations of the state with special reference to its mineral deposits, including coal, oil, gas, asphalt, gypsum, salt, cement, stone, clay, lead, zinc, iron, sand, road building material, water resources and all other mineral resources.

"Second: The preparation and publication of bulletins and reports, accompanied with necessary illustrations, maps, including both general and detailed descriptions of the geological structure and mineral resources of the State.

"Third: The consideration of such other scientific and economic questions as, in the judgment of the commission, shall be deemed of value to the people."

The survey is by law placed under the direction of a commission known as the State Geological Commission, composed of the Governor, the President of the State University and the State Superintendent of Public Instruction. This commission appoints the director and has control of the work of the survey.

Offices and Museums

The offices and drafting rooms of the survey are at present in the basement of the library building at the university. The laboratories and storage rooms are located in one of the temporary frame buildings on the campus. The museum is in the basement of Monnet Hall, in connection with the historical and ethnology museum.

Work of the Survey

Since the establishment of the survey in 1908, field investigations have been carried on practically without interruption. The nature of the work and the areas covered are discussed in the directors biennial report for the years 1908-10, 1911-12, and 1913-14. Copies of these reports are still available. The purpose of the survey is to investigate the mineral resources of the state, and to publish bulletins concerning the various materials in order that the resources of the state may be properly developed. Twenty-two bulletins, six circulars, and a large number of maps, diagrams, and sections have been published. At the present time several bulletins are in course of preparation and will be published within the next year.

In addition to the systematic work carried on by the survey, more or less detailed studies are made of several localities with the view of obtaining data relating to local mineral deposits and geology for the benefit of citizens in the various communities. This work has been done directly for the benefit of the citizens and written reports have been made; hence no further reports will be made except as these preliminary investigations furnish material for use in the regular reports.

Educational Work

A study of the trees and shrubs of Oklahoma was begun in 1912, and has been continued to the present time. A preliminary circular was issued, giving the names of trees and shrubs found in the state and the localities where they were known to occur. A large amount of data has been secured, and it is planned to publish a complete report with photographs and detailed descriptions of all species found.

A bulletin is being prepared on the flowering plants of the state. Field work has been in progress for more than two years and most of the state has been covered in collecting the material for the report.

Another line of work is a study of the birds of the state. Special investigating and collecting has been carried on in practically every county in the state, and the report is now being prepared for publication. The bulletin will be of much value in showing the economic value of the bird life. It will be especially adapted for the general public and for use in the schools of the state.

Other special bulletins will include reports on the Oklahoma min-

erals, Oklahoma physiography and related subjects. A new sectionized state map 28 by 53 inches has been published, and other maps of special educational value are being prepared.

Public Lectures

The members of the survey staff have given lectures before commercial clubs, public schools, normal schools and other institutions of the state, and before popular audiences. This work is regarded as educational. The people of the state are very desirous of knowing of the mineral resources, and the lectures have been well received. Commercial clubs and other business and industrial organizations are desirous of knowing where they can obtain printed information about the resources of the state; and where attempts are being made to bring about development, the talks before such clubs give an idea of the value of the resources considered.

It is hoped that in the future more attention can be given to this plan of disseminating knowledge over the state concerning the mineral resources. Every effort will be made to assist organizations in securing information concerning the state which will be of value in the securing of industrial enterprises to bring about development of the natural materials.

High School Collections

The survey prepares sets of Oklahoma minerals which are representative of the mineral resources of the state. These collections contain about sixty different specimens properly labeled and are furnished on request to high schools, private schools, normals, and colleges for use in connection with geography and physical geography work. The only cost to the school is the transportation charges. The weight of the shipment is usually less than 100 pounds. Complete sets of all bulletins and maps published by the survey are included, as well as other material which may prove valuable as helps to teachers in their science work. These sets of minerals and publications have been furnished to a large number of schools. Numerous requests are being received and special attention is given to the preparation of the sets in order to make them of the highest value possible.

Publications

The work of the Geological Survey is made known to the public chiefly through the publication and distribution of its printed reports and maps. Only a limited number of the various reports can be published, the number ranging from 1,000 to 3,000. The manner of the distribution of such publications cannot readily be solved. The policy of the survey has been to send publications free to the public, and especially to citizens of the state. When a publication is issued, press

notices are mailed to individuals and to all the leading newspapers of the state. In this way a large number of the people of the state learn of the publication, and those interested have an opportunity to secure such reports as long as they are available.

The list of publications given below shows the scope of the work which has been done by the survey:

Circular No. 1. Origin, Scope and Purpose of the Oklahoma Geological Survey. (Edition exhausted.)

Circular No. 2. Brief Statement of the Geological History of Oklahoma. Postage 1 cent.

Circular No. 3. Oklahoma among the Southern States. Postage 1 cent.

Circular No. 4. Trees and Shrubs of Oklahoma. Postage 2 cents.

Circular No. 5. Rock Asphalts of Oklahoma and their Use in Paving. Postage 2 cents.

Proposed Group of Pennsylvanian Rocks of Eastern Oklahoma, by Chas. N. Gould, D. W. Ohern and L. L. Hutchison: Research Bulletin, University of Oklahoma, No. 3 1910. Postage 3 cents.

Stratigraphy of the Older Pennsylvanian Rocks of Northeastern Oklahoma, by D. W. Ohern: Research Bulletin, University of Oklahoma No. 4 1910. Postage 3 cents.

Booklet: Resources of Oklahoma in a Pocket-book, by C. W. Shannon. Postage 2 cents.

Maps: Distribution of Oklahoma minerals. Postage 2 cents.
Physiographic map of Oklahoma. Postage 2 cents.
Structural map of Cushing oil field. Postage 2 cents.
State map of Oklahoma. Postage (folded) 3 cents: (in tube) 10 cents.

Bulletin No. 1. Preliminary Report of the Mineral Resources of Oklahoma. (Edition exhausted.)

Bulletin No. 2. Rock Asphalt, Asphaltite, Petroleum and Natural Gas in Oklahoma. (Edition exhausted.) Replaced by Bulletin No. 19.

Bulletin No. 3. Geology and Mineral Resources of the Arbuckle Mountains. (Edition exhausted.)

Bulletin No. 4. Coal of Oklahoma. Replaced by Bulletin No. 20.

Bulletin No. 5. Structural Materials of Oklahoma. Postage 6 cents.

Bulletin No. 6. Director's Report and Brief Chapters on Twenty Oklahoma Minerals. Postage 3 cents.

Bulletin No. 7. Clays and Clay Industries of Oklahoma. Postage 10 cents.

Bulletin No. 8. Road Materials and Road Conditions in Oklahoma. Postage 7 cents.

Bulletin No. 9. Lead and Zinc in Oklahoma. Postage 4 cents.

Bulletin No. 10. Glass Sand in Oklahoma. Postage 4 cents.

Bulletin No. 11. Gypsum in Oklahoma. Postage 9 cents.

Bulletin No. 12. Mineral Waters in Oklahoma. (In preparation.) Postage 6 cents.

Bulletin No. 13. Volcanic Ash in Oklahoma. Postage 6 cents.

Bulletin No. 14. Asphalt in Oklahoma. (In preparation.) Postage 7 cents.

Bulletin No. 15. Director's Biennial Report to the Governor with Mineral Production of Oklahoma from 1901 to 1911 as part 2. Postage 3 cents.

Bulletin No. 16. Ponca City Oil and Gas Field Report. Postage 2 cents.

Bulletin No. 17. Geology of East-central Oklahoma. Postage 3 cents.

Bulletin No. 18. Report on Cushing Oil Field. Postage 10 cents.

Bulletin No. 19. Petroleum and Natural Gas in Oklahoma. Postage 10 cents.

Bulletin No. 20. Coal and Coal Mining in Oklahoma. (Awaiting funds for printing.) Postage 25 cents.

Bulletin No. 21. Permian Redbeds of Oklahoma. Postage 5 cents.

Bulletin No. 22. Director's Biennial Report for 1913-14. Postage 5 cents.

Co-operative Work With United States Government

Co-operative work with the United States government is carried on by the staff of the survey for the purpose of making topographic maps, geologic folios, and investigation of various geological problems in the state. The United States Geological Survey is expected to use in these investigations an amount equal to that appropriated by the state of Oklahoma for that particular line of work, but it may be said that the national survey has given much more than its share in carrying this work, and that the people of the state will receive much benefit from this co-operative arrangement. Several publications are in the course of preparation at the government printing office, and will be ready for distribution within a short time. These publications will add materially to the list already available upon the resources of Oklahoma.

ADMISSION

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GENERAL REQUIREMENTS FOR ADMISSION

The work of the several undergraduate schools and colleges of the university is planned to follow the completion of at least four years' preparation in an acceptable high school, or the equivalent, except as provided for in the two year plan of work of the School of Pharmacy, and in the School for Nurses. The School of Medicine requires in addition a year of college work.

Applicants for admission to the College of Arts and Sciences, the College of Engineering, and the School of Fine Arts must be at least sixteen years of age, but for admission to the School of Pharmacy and the School for Nurses, applicants must be at least seventeen, and to the School of Law and the School of Medicine, at least eighteen. No age limit is set for admission as an unclassified student, or as a preparatory student in music in the School of Fine Arts.

The university is open on equal terms to both sexes.

Admission may be either by examination or by certificate, or by both, and may be to freshman, to unclassified, or to advanced standing.

ADMISSION BY EXAMINATION

The Committee on Admission will conduct entrance examinations at the university on Friday and Saturday following Commencement in June; on Monday and Tuesday of the opening week of school in September; and on Friday and Saturday preceding the beginning of the class work of the second semester, in such subjects as are called for one week before the date set for the beginning of the examinations. All applicants who do not hold certificates of admission should obtain permission from the Committee on Admission to present themselves for examination. This examination is not open to persons who have already matriculated as students in the university.

ADMISSION BY CERTIFICATE

Applicants may be admitted without examination on presentation of properly indorsed certificates from affiliated schools, or on credentials from other schools of recognized standing.

Graduates of regularly affiliated schools should file their certificates with the registrar at or before matriculation. All other applicants for admission should file their records with the Committee on Admission at least two weeks before the opening of school.

ADMISSION TO FRESHMAN STANDING

Students expecting to enter a professional school should see that the subjects they take in high school will prepare them to meet the prescribed entrance requirements of the school chosen.

The requirements for admission to freshman standing are usually stated in units. The unit of entrance credit is the standard amount of work required in a secondary school subject given thirty-six weeks, with five recitation periods a week, of forty-five minutes each, or with four recitation periods of sixty minutes each.

For a subject carried eighteen weeks with five recitation periods a week of forty-five minutes each, one-half unit of credit is given. One-half unit is also given for a subject carried thirty-six weeks with three recitation periods a week of forty-five minutes each.

Fifteen properly selected units of credit secured either by examination, or by certificate from an acceptable school, will admit the student to freshman standing.

REQUIREMENTS FOR ADMISSION TO THE SEVERAL SCHOOLS OF THE UNIVERSITY

The requirements for admission to the several undergraduate schools of the university are given below in units. All work should be chosen from the subjects listed under "Description of Courses Accepted for Admission."

	Arts and Sciences	Engineering	Fine Arts	Law	Medicine	School for Nurses	Pharmacy Three Y's & Four Years	Pharmacy Two Years
English - - - -	3	3	3	3	3	2	3	2
Algebra - - - -	1	1 1-2	1	1	1	1	1	1
Geometry - - - -	1	1 1-2	----	1	1	----	1	----
History - - - -	1	1	1	----	1	1	1	1
One Foreign Lang. -	2	2†	2	----	2††	1††	2††	1††
Physics . - - - -	1*	1*	----	---	1	.	1	----
Elective - - - -	6	5	8**	10	6	2	6	2
Total	15	15	15	15	15†††	7	15	7

*Chemistry, one unit; botany, one unit; zoology, one unit; or botany and zoology, one-half unit each, may be substituted.

†German preferred in chemical engineering.

**Three of these units are credited for the technical work in piano or in violin required for admission to the music courses.

††Latin preferred.

†††One year of college credit in addition to the fifteen units is required. (See under Admission in School of Medicine.)

High school graduates presenting fifteen units, including three of English and two of mathematics, will be admitted to freshman standing. Conditions, if any, in the other required units must be removed before sophomore classification is given. Conditions may be removed in the manner provided below for making up deficiencies, or they may be removed by the completion of equivalent college work.

NOTE.—The term freshman standing is used throughout this section as descriptive of students presenting the requirements for admission to the freshman class of the College of Arts and Sciences, or the minimum requirements for admission to the first year of professional work, except in the School of Medicine.

DEFICIENCIES IN ENTRANCE CREDIT

Applicants presenting at least twelve units, including three of English and two of mathematics, may be admitted to a part of the freshman work in the College of Arts and Sciences, the College of Engineering, or the School of Fine Arts, while they are making up deficiencies. Such students are ranked as unclassified students until their deficiencies are made up. All deficiencies must be made up during the first year in residence. Such applicants must be either high school graduates or must be recommended for admission by the authorities of the high school last attended.

UNCLASSIFIED STUDENTS

Applicants, not candidates for a degree, may be admitted to such work as they are prepared to take. Such applicants for admission must be twenty-one years of age, or must satisfy the requirements for admission to freshman standing, except as provided in the School of Fine Arts.

Admission as an unclassified student is subject to the approval of the dean of the college or school concerned.

MAKING UP DEFICIENCIES

As stated in the preceding section, applicants deficient in not more than three units may be admitted as unclassified students to the College of Arts and Sciences, the College of Engineering, or the School of Fine Arts. Such students may arrange with the dean at matriculation to make up their deficiencies, either in the high school or with the aid of private tutors, or by the completion of equivalent college work as provided below. The student must be guided in the choice of method by the advice of the dean. The whole number of hours which the student is carrying must not exceed, however, the limit set by the rules governing the amount of work. For every unit of credit not otherwise satisfied at the end of the student's first year in resi-

dence, five hours will be deducted permanently from the credit made by him during the year, this five hours being counted as satisfying the unit deficiency.

This rule is not to be construed so as to relieve the student in any way from the completion of required subjects, and the student's enrollment during the first year must be planned to satisfy all admission requirements. No work may be counted twice, that is, both as a part of fifteen units required for admission and as hours toward a degree.

ADVANCED STANDING FOR WORK DONE IN HIGH SCHOOLS

College credit for work done in the high school in excess of sixteen units will be given only upon examination. In general, application for such credit may be made only by graduates of affiliated high schools who have done work in excess of the requirements for graduation. Such excess work should be certified in detail to the Committee on Admission. Application for advanced standing must be made to the committee at or before matriculation.

In general, college credit for work done in high schools will be given only for advanced courses and will be approximately half of the time given. That is, a student taking a fifth year in the high school cannot expect more than a half year's credit in the university.

ADVANCED STANDING FOR WORK DONE IN NORMAL SCHOOLS

Students who have completed work of college rank in the state normal schools of Oklahoma are admitted to the university with advanced standing in the College of Arts and Sciences, credited at the rate of thirty hours for the full year's work. Such credit will be given only for courses taken after the completion of fifteen standard entrance units. Sixty hours is the maximum amount of credit that will be given to graduates of the normal schools, except that additional credit not to exceed four hours in physical training may be given.

ADVANCED STANDING FOR WORK DONE IN OTHER COLLEGES AND UNIVERSITIES

Students from other schools who have pursued standard college courses equivalent to those of the University of Oklahoma will receive credit for such courses upon presentation of proper certificates of creditable standing and honorable dismissal.

All applications for advanced standing must be filed at or before matriculation. Students coming from approved colleges whose requirements for admission are substantially those of the University of Oklahoma will be admitted ordinarily to equal standing, provided they

enter not later than the beginning of the senior year. The full equivalent of senior work must be completed in residence before a degree will be granted.

Examination for advanced standing may be given to applicants who have had systematic courses, but who can not furnish satisfactory credentials of having taken the work in an approved college. The Committee on Admission and Advanced Standing will determine the total credit so obtained, and the subjects upon which examinations will be given. No student will be allowed to take an examination for advanced standing until he has secured a properly certified permit from the committee.

No examination will be given to students in subjects in which they have received conditions or failures in other colleges.

ADMISSION TO THE GRADUATE SCHOOL

For admission to graduate standing, see catalogue under the head of the Graduate School.

AFFILIATION OF SCHOOLS

When the authorities of any school desire to affiliate with the university, formal application for inspection should be made to the High School Inspector, University of Oklahoma, Norman, Oklahoma.

It is understood that the high school exists for the training of the greater number who do not go to college, rather than for the smaller number who do go. The courses that constitute the best education for the duties of practical life constitute also the best preparation in general for the college or technical school. The standards set for affiliation are practically those of the North Central Association of Colleges and Secondary Schools, which were made jointly by colleges and high schools. If the pupil is to be credited for admission with high school courses, the courses should be given under conditions that develop as nearly as possible their full educational value. The co-operation of the high schools of the state will be welcomed in shaping the rules of affiliation to conform to the best standards. The educational ideals promoted by the state should be such as to serve the interests of the high school and the university alike.

A high school with a curriculum largely elective is not expected to make specific requirements for graduation to fit the entrance requirements of the several colleges or schools of the university. It is enough for the university to ask that a student be given an opportunity to select such work as will fit him to enter the school of his choice.

Private academies, seminaries, and other secondary schools may be accredited on the same basis as public high schools.

Schools are accredited for three years, but after one year a new inspection and a new accrediting of the high school may be made.

Standards for Accredited Schools

(1) The high school curriculum should cover four school years of not less than thirty-six weeks each, and should follow an elementary course not less than eight years in length.

(2) The curriculum should require of each pupil not more than four recitations daily with periods not less than forty minutes in length. Minor subjects not counted toward graduation are not considered.

(3) Schools seeking credit in science, history, and English should possess adequate laboratory and library equipment in those branches.

(4) The school should offer at least fifteen of the standard units accepted by the North Central Association of Colleges and Secondary Schools. These units are named and described on the pages following. Three units of English and two of mathematics should be required for graduation.

(5) Instructors should conduct not more than six recitations daily, and the number of instructors teaching exclusively in the high school should bear the proportion of one to not more than thirty students.

(6) The minimum scholastic attainment of all instructors should be equivalent to graduation from a standard college or university, including special work in the subjects taught. Such requirements, however, are not to be construed as retroactive.

Admission from Accredited Schools

In determining the amount of credit to be granted to any school, each subject will be considered separately. Credit will be granted for such subjects as are taught in accordance with the foregoing requirements by competent teachers who have the use of adequate library and laboratory facilities. Each school therefore may secure credit for part or for all of its work. High schools offering less than four years' work will be accredited for such subjects as are sufficiently well taught to meet the foregoing requirements. Graduates of such schools, however, will need to complete their preparation in other accredited secondary schools, or by correspondence work in the extension division of the university.

The Committee on Affiliation will, with the advice of the high school inspector, determine the units of entrance credit to which each school is entitled. A list of these units will be sent to the school and a duplicate filed with the registrar. The principal or superintendent will thereafter be asked only to certify to the registrar of the university the particular units that graduates of the high school have completed when they enter the university.

Graduates of high schools that have been inspected and accredited

should file their certificates with the registrar at or before matriculation. All other applicants for admission should file their records with the Committee on Admission at least two weeks before the opening of school.

SUGGESTED FOUR YEAR CIRRICULUM

As stated in another section, the high school is not expected to make specific requirements for graduation to fit the entrance requirements of the several schools of the university. The curriculum given below is taken from the manual issued by the State Board of Education in 1912 and is printed here as offering interesting suggestions.

First Year

English	Algebra	Foreign Language or Ancient History	Phys. Geog. 1-2 Botany 1-2

Second Year

English	Plane Geom.	Foreign Language, Modern History, Agriculture (two of three)

Third Year

English	Physics	Foreign Language	Elective

Fourth Year

Foreign Language	Electives, two subjects	American Hist. and Civics

Either fourth year English, shorthand and typewriting, or physiology is suggested as one of the electives of the fourth year. One-half year of algebra in the fourth year is recommended. Latin and German are recommended as suitable foreign languages.

SUBJECTS ACCEPTED FOR ADMISSION

1, 2, 3, English—College Entrance Requirements . 3
4 Fourth year English . . 1
5 Algebra through Quadratics 1
6 Plane Geometry . . . 1
7a Solid Geometry . . . 1-2
7b Algebra from Quadratics 1-2
(One-half year taken after plane geometry)
7bb The same when taken for one year and before plane geometry . . . 1-2
8a Trigonometry . . . 1-2
8b Advanced Algebra . 1-2
9 Ancient History . . . 1
10 Modern History . . 1
11 English History . 1-2 or 1
12 American History 1-2 or 1
13a Civics 1-2
13b Economics . . . 1-2
14 First year Latin . . 1
15 Caesar—four books . . 1
16 Cicero—six orations . 1
17 Vergil—six books . . 1
18 First year Greek . . . 1
19 Anabasis 1
20 Homer 1
21 First year German . . 1
22 Second year German . 1
23 Third year German . . 1
24 Fourth year German . 1
25 First year French . . 1
26 Second year French . 1
27 Third year French . . 1
28 Fourth year French . . 1
29 First year Spanish . . 1
30 Second year Spanish . 1
31 Physics 1
32 Chemistry 1
33 Physical Geography 1-2 or 1
34 Botany . . . . 1-2 or 1
35 Zoology (one year) . . 1
35a Zoology (one-half year) 1-2
35b Physiology (one - half year) 1-2

OCCUPATIONAL SUBJECTS

(Not more than three units credited.)

36 Manual Training—Shop Work . . . 1-2 or 1
37a Free-Hand Drawing . 1-2
37b Free-Hand Drawing . 1-2
37c Mechanical Drawing . 1-2
38 Domestic Science . 1-2 or 1
39 Agriculture . . 1-2 or 1
40a Commercial Law . . . 1-2
40b Commercial Geography 1-2
41a Arithmetic . . . 1-2
41b Bookkeeping . . . 1-2
42 Shorthand and Typewriting . . 1

In general, entrance credits are given only for such subjects as are enumerated in the table of units printed above and described in the following pages. Biology is by definition a half unit of botany and a half unit of zoology, and is so credited. Physical geography may include work in geology.

A unit course covered in one-half year will be given one-half unit of credit only when it is so indicated in the table. For example, botany completed in one-half year will be credited (as No. 34 1-2), while chemistry will not be credited for less than a full unit. A unit of work done in less than the standard time is credited in full only upon examination.

DESCRIPTION OF COURSES ACCEPTED FOR ADMISSION

The outlines in the Oklahoma High School Manual furnish more detailed description of unit courses.

ENGLISH

Three or Four Units

1-3. The three units required in English should cover spelling, pronunciation, grammar, including especially syntax, persistent training in composition, the essential principles of rhetoric, and the reading of the books prescribed by the Joint Committee on Uniform Entrance Requirements in English. For a fuller statement of the character and quality of the work required, see the definitions of English units in the manual issued by the North Central Association.

4. A fourth unit may be given for one full year's additional work in the study of English and American authors.

For affiliated high schools the following plan is suggested:—

First year. Literature, two periods; composition, three periods.

Second year. Literature, two periods; composition and rhetoric, three periods.

Third year. Literature, three periods; composition and rhetoric, two periods.

Fourth year. Literature, four periods; composition and rhetoric, one period.

An outline history of English literature may well be studied as a part of either the third or the fourth year's work. Although the university requires for admission but three years of English, a four-year high school should offer four units. It is recommended that all students who do not take four years of foreign language should take the entire English course. If a plan of work has but three units of English, it is often more convenient to leave out the third year.

"The list of books, as arranged by the Joint Committee on Entrance Requirements in English, is divided into two parts, the first consisting of books to be read with attention to their contents rather than to their form, the second consisting of books to be studied thoroughly and minutely.

"With reference to the second list, the Joint Committee recommends that each of the books prescribed for study be taught with ref-

erence to subject matter, form, and structure; and that, in addition, attention be given to the essentials of English grammar and to the leading facts in those periods of English literary history to which the prescribed works belong.

"The lists and requirements below are intended to indicate in a general way the extent and character of the required work, and are not to be interpreted as limitations upon the teacher's choice. Books of equal merit, covering a similar range of literary types, will meet the requirements satisfactorily."

"I. Books Prescribed for Reading

With a view to large freedom of choice, the books provided for reading are arranged in the following divisions and groups, from which at least ten units are to be selected, two from each group:

For 1915, 1916, 1917, 1918, and 1919:

GROUP I—CLASSICS IN TRANSLATION

The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther

Homer's Odyssey, with the omission, if desired, of Books, I, II, III, IV, V, XV, XVI, XVII

Homer's Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVIII, XXI

Vergil's Aeneid

The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

GROUP II—SHAKESPEARE

Shakespeare's Midsummer-Night's Dream, Merchant of Venice, As You Like It, Twelfth Night, The Tempest, Romeo and Juliet, King John, Richard II, Richard III, Henry V, Coriolanus, Julius Caesar, Macbeth, Hamlet.

N. B.—The last three only, if they are not chosen for study.

GROUP III—PROSE FICTION

Malory's Morte d'Arthur (about 100 pages)
Bunyan's Pilgrim's Progress, Part I
Swift's Gulliver's Travels (Voyages to Lilliput and to Brobdingnag)
Defoe's Robinson Crusoe, Part I
Goldsmith's Vicar of Wakefield
Frances Burney's Evelina
Scott's Novels: any one
Jane Austen's Novels: any one

Maria Edgeworth's Castle Rackrent, or The Absentee
Dickens's Novels: any one
Thackeray's Novels: any one
George Eliot's Novels: any one
Mrs. Gaskell's Cranford
Kingsley's Westward Ho! or Hereward the Wake
Reade's The Cloister and the Hearth
Blackmore's Lorna Doone
Hughes's Tom Brown's Schooldays
Stevenson's Treasure Island, or Kidnapped, or The Master of Ballantrae
Cooper's Novels: any one
Hawthorne's The House of the Seven Gables, or Twice Told Tales, or Mosses from an Old Manse
A collection of short stories by various standard writers.

GROUP IV—ESSAYS, BIOGRAPHY, ETC.

The Sir Roger de Coverley Papers, or
Selections from The Tatler and The Spectator (about 200 pages)
Boswell's Selections from the Life of Johnson (about 200 pages)
Franklin's Autobiography
Irving's Selections from the Sketch Book (about 200 pages), or
The Life of Goldsmith
Southey's Life of Nelson
Lamb's Selections from the Essays of Elia (about 100 pages)
Lockhart's Selections from the Life of Scott (about 200 pages)
Thackeray's Lectures on Swift, Addison, and Steele in the English Humorists
Macaulay: one of the following essays: Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederick the Great, or Madame d'Arblay
Trevelyan's Selections from Life of Macaulay (about 200 pages)
Ruskin's Sesame and Lilies, or
Selections (about 150 pages)
Dana's Two years Before the Mast
Lincoln's Selections, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, The Last Public Address, and Letter to Horace Greeley, together with a brief memoir or estimate of Lincoln
Parkman's The Oregon Trail
Thoreau's Walden
Lowell's Selected Essays (about 150 pages)
Holmes's The Autocrat of the Breakfast Table
Stevenson's Inland Voyage, and Travels with a Donkey

Huxley's Autobiography and selections from Lay Sermons, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk

A collection of Essays by Bacon, Lamb, DeQuincey, Hazlitt, Emerson, and later writers

A collection of letters by various standard writers.

GROUP V—POETRY

Palgrave's Golden Treasury (First Series) Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns.

Palgrave's Golden Treasury (First Series) Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study)

Goldsmith's The Traveller and The Deserted Village

Pope's The Rape of the Lock

A Collection of English and Scottish Ballads, as, for example, some Robin Hood ballads, The Battle of Otterburn, King Estmere, Young Beichan, Bewick and Grahame, Sir Patrick Spens, and a selection from later ballads

Coleridge's The Ancient Mariner, Christabel, and Kubla Khan

Byron's Childe Harold, Canto III or IV, and The Prisoner of Chillon

Scott's The Lady of the Lake, or Marmion

Macaulay's The Lays of Ancient Rome, The Battle of Naseby, The Armada, Ivry.

Tennyson's The Princess, or Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur

Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, "De Gustibus—," The Pied Piper, Instans Tyrannus

Arnold's Sohrab and Rustum, and The Forsaken Merman

Selections from American Poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.

"II. Books Prescribed for Study and Practice

"For 1915, 1916, 1917, 1918, and 1919:

GROUP I—DRAMA

One to be Selected

Shakespeare's Julius Caesar, Macbeth, Hamlet.

GROUP II—POETRY

One to be Selected

Milton's L'Allegro, Il Penseroso, and either Comus or Lycidas

Tennyson's The Coming of Arthur, The Holy Grail, and The Passing of Arthur

The selections from Wordsworth, Keats, and Shelley in Book IV of Palgrave's Golden Treasury (First Series).

GROUP III—ORATORY

One to be Selected

Burke's Speech on Conciliation with America

Macaulay's Two Speeches on Copyright, and Lincoln's Speech at Cooper Union

Washington's Farewell Address, and Webster's First Bunker Hill Oration.

GROUP IV—ESSAYS

One to be Selected

Carlyle's Essay on Burns, with a selection from Burns's Poems

Macaulay's Life of Johnson

Emerson's Essay on Manners.

MATHEMATICS

Two to Four Units

5. Algebra Through Quadratics: The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, solution of equations of the first degree containing one or more unknown quantities, radicals including the extraction of the square root of polynomials and numbers, quadratic equations with numerical co-efficients, and problems depending upon such equations. This unit is required of all candidates for admission to freshman standing and should be given in the first year of the high school.

6. Plane Geometry: The adopted text completed, including the solution of original exercises and numerical problems. This unit is required. It is recommended that this work be given in the second year of the high school.

7a. Solid Geometry: The adopted text including properties of straight lines, planes, dihedral and polyhedral angles, projections, polyhedrons, cylinders, cones, spheres, spherical triangles, and the measurements of surfaces and volumes. This half-unit is required for admission to the College of Engineering and is strongly recommended for all courses. It should be given the first half-year following plane geometry.

7b. Algebra; A review of the theory in the first year's course followed by ratio and proportion, theory of exponents, theory of quadratic equations, graphical representation, simultaneous quadratics, binomial theorem for positive integral exponents, progressions, logarithms, including the use of four-place tables. This half-unit is

required for admission to certain schools of the university and is strongly recommended for all students. It should be given after the completion of plane geometry, preferably in the fourth year. A year's work in algebra in the second year of the high school is considered barely the equivalent of a half year's work after the training given by a year of plane geometry.

8b. Advanced Algebra: Embracing a study of complex numbers, theory of logarithms, permutations and combinations, binomial theorem, partial fractions, determinants, and the elements of the theory of equations, including Horner's Method. One-half unit. This course is not recommended for secondary schools. The work must be clearly in addition to the algebra requirements of one and one-half units described under 5 and 7b. Credit will be given for this half-unit only upon examination. Students presenting 8b will not be entitled to enroll for credit in Mathematics 5.

8a. Trigonometry: Plane and spherical trigonometry, including the definitions of the six trigonometric functions, proof of important formulas, trigonometric equations and identities, theory of logarithms and use of tables, solution of right and oblique triangles. This course is not recommended for secondary schools unless it can be given under the most favorable conditions. Credit will ordinarily be given for this half-unit only upon examination. Students presenting 8a will not be entitled to enroll for credit in Mathematics 6 or 9.

The work of the first two years in mathematics is definitely recommended for all affiliated high schools and is as follows: first year, algebra through quadratics; second year, plane geometry. The remainder of the mathematics course will vary in different schools, but, unless onefourth of the time during the last year is given up to review courses closing with a review of arithmetic and algebra, there are good reasons why solid geometry and algebra should be taken in the last year of the high school. Students who take up college algebra without a fresh knowledge of high school algebra are at a great disadvantage. When mathematics must be omitted from any year of the curriculum it is suggested that it may be left out in the third year, and that physics, which is an allied subject, be put in its place.

HISTORY

Not Less Than One Nor More Than Four Units

9. Ancient History: A standard text published since 1899 and at least 200 pages of assigned reading, one-fourth of which should be source material. This unit should be given in the first or the second year of the high school work.

10. Modern History: A standard text published since 1899 and

at least 300 pages of assigned reading, one-fourth of which should be source material. Stress may well be laid on English history, if it is not given as a separate unit. This unit should be given in the second or the third year of the high school.

11. English History: A standard text published since 1899 and at least 300 pages of assigned reading, one-fourth of which should be source material. This unit should not be given by high schools, unless four years of history are given. It belongs in the third year of the high school.

12. American History or American History and Civil Government: The adopted text and at least 350 pages of assigned reading, one-fourth of which should be source material. The origin and development of our government, central and state, should be studied. This course, if credited, must be given in the third or the fourth year of the high school. Oklahoma history may be included.

If but one of the above units can be given, modern history is recommended, although some authorities prefer the ancient history. A year's course in general history is not credited, unless taken before July 1, 1909.

CIVICS

One-Half Unit

13a. Civics: Civil government may be studied apart from American history, and a half year course may be given in either the first or the last year of the high school. The adopted text with special attention to the government of Oklahoma both state and local.

ECONOMICS

One-Half Unit

13b. Economics: A standard text with collateral readings, especially on the economic history of England and the United States. In the selection of texts it is well to avoid large and difficult books intended for college classes.

LATIN

One, Two, Three, or Four Units

14. First Year Latin: The adopted text with careful drill in forms. The Latin should be read aloud with intelligent expression, and translations should be made into idiomatic English.

15. Second Year Latin, Caesar's Gallic War: Four books, or equivalent, with one period a week of prose composition based on Caesar.

16. Third Year Latin, Cicero: Any six orations from the following list, but preferably the first six mentioned: the four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo,

Sestius, Ligarius, the fourteenth Philippic. The equivalent of at least one period a week in prose composition based on Cicero.

17. Fourth Year Latin, Vergil: The first six books of the Aeneid; Mythology.

"Equivalents may be presented as follows: Second year Latin, Caesar, *Gallic War* and *Civil War* and Nepos, *Lives.* Third year, Cicero, *Orations, Letters*, and *De Senectute* and Sallust, *Catiline* and *Jugurthine War.* Fourth year, Vergil, *Bucolics, Georgics*, and *Aeneid* and Ovid, *Metamorphoses, Fasti,* and *Tristia;* These specifications accord with the recommendations of the Commission on College Entrance Requirements in Latin appointed by the American Philological Association in 1908.

No combination of prose and poetry will be accepted as a unit, unless taken before July 1, 1909.

GREEK

One, Two, or Three Units

18. Introductory Lessons: A careful drill on forms and accents, practice in reading at sight, systematic study of grammar begun, 20 to 30 pages of Anabasis or equivalent.

19. Xenophon's Anabasis: From 75 to 120 pages of the Anabasis, either alone or with other Attic prose. Continued study of grammar and practice in writing Greek, both based on the study of Books I and II of the Anabasis.

20. Homer (2,500 to 4,000 Lines): e. g.; Iliad I-III (omitting II 494-end), and VI-VIII; Attic prose (33-40 pages), with practice in writing Greek; grammar, practice reading at sight.

GERMAN

One, Two, Three, or Four Units

21. First Year German: Drill in pronunciation and in the rudiments of grammar, the memorizing and frequent repetition of easy colloquial sentences, abundant easy exercises as application of grammar and to cultivate readiness in the reproduction of natural forms of expression. Reading of 50 to 100 pages of easy text. Thoroughness and accuracy are the chief considerations.

22. Second Year German: The reading of two or three suitable texts in the form of easy stories and plays, such as:

1. Storm's *Immensee* or Arnold's *Fritz auf dem Lande.*
2. Seidel, *Weihnachten bei Lebrecht Huehnchen* or Riehl, *Die Werkender Barmherzigkeit.*
3. Kotzebue, *Die Deutschen Kleinstadter* (as a play).

Practice in translation of English into German, also easy dictation and composition exercises.

23. Third Year German: A thorough and systematic review of

the fundamental principles of grammar in connection with suitable practice in composition. A text-book such as Pope's or Bernhardt's German Composition should be used for this purpose. The reading of 300 to 350 pages of moderately difficult prose, of which the following are good examples:

1. Freytag's *Die Journalisten,* or Lessing's *Minna von Barnhelm.*
2. Schiller's *Wilhelm Tell* or Goethe's *Hermann und Dorothea.*
3. Freytag, *Aus dem Jahrhundert des Grossen Krieges,* or Treitschke's *Das Deutsche Ordensland Preussen.*

In addition selections from poems of Uhland, Heine, Schiller, Goethe, etc.

25. Fourth Year German: The work of the fourth year should comprise the reading of about five hundred pages of good literature in prose and poetry, reference reading upon the lives and works of the great writers studied, the writing in German of numerous short themes upon assigned subjects, independent translation of English into German.

FRENCH

One, Two, Three, or Four Units

25. First Year French: Drill in pronunciation and the rudiments of grammar; abundant easy exercises; the translation of from 100 to 175 pages of graduated texts with constant practice in writing French from dictation, and in translating into French easy variations of the sentences read.

26. Second Year French: The translation of from 250 to 400 pages of easy modern prose with constant practice as in the previous year.

27. Third Year French: The work of the third year should comprise the translation of from 400 to 600 pages of ordinary French, a portion to be in dramatic form; constant practice as in previous years.

28. Fourth Year French: During the fourth year the work should comprise the reading of from 600 to 1,000 pages of standard French, classical and modern, the writing of numerous short themes in French, and the study of syntax.

SPANISH

One or Two Units

29. First Year Spanish: Careful drill upon pronunciation and the rudiments of grammar with numerous exercises, the reading of from 100 to 175 pages of graduated texts, with translation into Spanish of easy variations of the sentences read; writing Spanish from dictation.

30. Second Year Spanish: The reading of from 250 to 400 pages of modern prose with constant practice as in the previous year.

PHYSICS

One Unit

31. Physics: The work should consist of three closely related parts, namely: class work, lecture demonstration work, and individual laboratory work. Three periods a week should be devoted to class and lecture demonstration work, and in addition to this, at least two double periods a week must be devoted to individual laboratory work. Thirty to fifty experiments selected from a standard laboratory manual should be performed.

Physics should be given in the third or in the fourth year of the high school. If chemistry is given, physics should cover the third year and chemistry the fourth. When physics is given in the third year, solid geometry and algebra from quadratics may well be put off until the fourth year, as physics must be to some extent a mathematical course. The training given by a course in plane geometry is almost necessary for satisfactory work in physics.

CHEMISTRY

One Unit

32. Chemistry: The work in chemistry should consist of three parts, namely: class work, lecture demonstration work, and individual laboratory work. Three periods a week should be devoted to lecture and recitation work, and in addition to this at least two double periods a week must be spent by the students in actual laboratory work. It is desirable that elementary physics be thoroughly understood before chemistry is taken up. Chemistry if given should be a fourth year subject. This course is not recommended for secondary schools.

PHYSICAL GEOGRAPHY

One-Half or One Unit

33. Physical Geography: This course should cover a study of the physical forces that are in operation on the earth's surface; physiographic forms, earth structure, work of streams, glaciers, oceans, etc. Two-fifths of the time should be spent in laboratory work.

BOTANY

One-Half or One Unit

34. Botany: The course should cover a study of the life histories of types from the main groups of plants. Three-fifths of the time should be devoted to individual laboratory work, and the remainder to recitations and discussions. Field excursions should be made, and

careful notes and drawings should be required in connection with the laboratory.

Where it is not possible to give a full year's work in botany, free-hand drawing, physical geography, or zoology may be combined with the botany, so as to make one unit.

ZOOLOGY AND PHYSIOLOGY

One-Half or One Unit

35. Zoology: The course in zoology should cover a study of the classifications, general structure, and life histories of types from the main groups of animals. Three-fifths of the time should be devoted to actual laboratory work, and the remainder to recitations and discussions. Field excursions should be made, and careful notes and drawings should be required in connection with the laboratory work.

35a. Zoology: "Where but half a year's work is offered in zoology the teacher should select the groups to be studied. Since the groups do not require equal periods of time, the number to be studied in a half year's course will depend on the selections. It should be not less than five."

35b. Physiology: This course should be taught by specially prepared instructors in physiology and by laboratory methods. Two-fifths of the time should be spent in laboratory work and the remainder in recitations. Neat and correct drawings, properly labeled, and intelligible notes should be made of each study, lecture-demonstration, or experiment.

"Where but half a year's work is offered in zoology, and where at the same time human physiology is taught, the zoology should be followed at once by the physiology or the two subjects combined into a single course. It is believed that time will be saved by this arrangement and that interest will be added to both subjects."

Physiology given before the middle of the tenth grade will be credited only upon examination.

OCCUPATIONAL SUBJECTS

Three units may be presented from the work described hereafter in manual training, agriculture, and commercial subjects. Since but fifteen units are required for admission, one-sixteenth of the pupil's time is left free for devotion to subjects for which entrance credit is not given. A pupil preparing for the university may therefore take four units of this work in the high school.

The minimum time given per year in manual training in order to count as a unit should be not less than 240 hours of 60 minutes. No superior limit is given, but additional time spent in any year will not receive additional credit. Credit will be given for occupational courses

only upon examination unless the work was done under proper conditions in an affiliated school.

36. Shop Work: Simple operations in joinery, training in the care and use of tools, with the development of a reasonable degree of skill. A portion of the time may be given to wood turning or pattern making.

37a. Free-Hand Drawing: Sketching from objects, casts, etc., with pencil or charcoal. This course should develop originality and an appreciable degree of accuracy in observation and representation. This one-half unit is urgently recommended for engineering students.

37b. Free-Hand Drawing: If sufficient time is given, and if the course is extended to include pen and ink sketching, free-hand perspective, or similar work, an additional half-unit of free-hand drawing may be presented.

37c. Mechanical Drawing: The use and care of drawing instruments. Practice plates and the solution of selected geometrical problems. Special attention should be paid to the quality of the work.

The same pupil may not present 37b and 37c, but either may be presented with 37a.

38. Domestic Science: A standard laboratory course in the household arts. Plain sewing, including the use and care of sewing machines, the nature and uses of cotton, linen, and woolen goods, patterns and measurements. Cooking, including the classification and cost of foods, diets, water supply and the disposal of waste. It should not be inferred that all the topics mentioned must be discussed or demonstrated. One-half or one unit may be presented.

40a. Commercial Law: The legal principles governing business relations. Text, supplemented by some study of cases by way of illustration, discussions, and practice in drawing legal papers. One-half unit.

40b. Commercial Geography: The factors in commerce, followed by a detailed study of the United States and other leading commercial nations with reference to resources, industries, etc. This half-unit should be preceded by physical geography if possible.

41a. Arithmetic: Writing numbers from dictation; fundamental operations; much oral and written drill in fractions; practical measurements; percentage; applications of percentage to profit and loss, commissions, taxation, fire insurance, life insurance, trade discounts, commercial paper, interest and exchange, ratio and proportion, involution and evolution. This unit will not be credited unless

taken after the student has completed a unit of algebra and a unit of plane geometry.

41b. Bookkeeping: The technical business subjects, especially bookkeeping and stenography, are vocational in purpose and must therefore be taught with a view to a practical mastery. This fact should suggest and control the method. For example, no credit should be allowed unless the work is done neatly, accurately, and at a satisfactory rate of speed.

Definitions of double entry terms, with rules for debit and credit; kinds and uses of books; conduct of a set including the journal, cash book, sales book, ledger, check book, bank pass book, trial balance book; closing of books; single entry set; changing from single to double entry. One-half unit.

42. Shorthand and Typewriting: No credit should be given for either shorthand or typewriting if taken alone. The "touch" method is strongly recommended in typewriting.

The object is first, accuracy, and second, speed in dictation and transcribing notes. Equally essential are correct spelling, capitalization, punctuation and paragraphing.

No credit will be given unless the following speed is attained: 75 words per minute in dictation and 25 words per minute on the machine.

Thorough training should also be given in care of the machine and in methods of copying, manifolding and filing papers. One unit.

ACCREDITED SCHOOLS

List of Affiliated Schools Accredited for 15 or more Units

Name	Superintendent	Principal
Ada	T. W. Robison	J. W. Shipp
Afton	J. O. Crook	B. C. Arnold
Altus	W. H. Decker	Bert McClelland
Anadarko	W. H. Bishop	F. A. Balyeat
Arapaho	J. R. Campbell	M. Z. Hall
Ardmore	C. W. Richards	Wm. A. Erdman
Atoka	J. P. Battenberg	Lulu Johnson
Bartlesville	F. W. Wenner	S. A. Zook
Beaver	John E. Swaim	Lena Wright
Beggs	E. E. Norvell	Lucile Lacey
Blackwell	A. J. Lovett	F. Leonard Bacon
Boswell	M. P. Hammond	Alma Patterson
Bristow	J. F. Sharp	May L. Sheeks
Carmen	W. L. Breckner	Eunice Denison
Chandler	Clen E. Tope	Etta H. Delay

Name	Superintendent	Principal
Checotah	J. F. Wellemeyer	R. L. Davis
Cherokee	H. Clay Fiske	M. H. McKean
Chelsea	M. A. Courtright	W. E. Darner
Chickasha	W. F. Ramey	Paul R. Morrow
Claremore (U.P.S.)	S. M. Barrett, President	----------
Cleveland	Harold J. Janson	Mildred Bush
Clinton	W. S. Bryan	Anna Castleberry
Coalgate	A. P. Lever	T. L. Mauldin
Collinsville	Leroy H. Petit	Oscar B. Heck
Copan	W. J. Robinson	----------
Cordell, Chris. Col.	Acad., J.N. Armstrong,	Pres. ----------
Cordell	Chas. Baldwin	Margaret Williamson
Cushing	C. H. Parrick	Guy E. Pitts
Custer City	L. J. Knack	Marjorie Carr
Dewey	T. H. Robinson	A. R. Orr
Duncan	Nim Hill	A. A. Neissler
Eldorado	H. A. Bruens	A. R. Miller
Elk City	A. L. Richards	Julia Luker
El Reno	C. M. Lieb	M. E. Gaskill
Enid	F. C. Jacoby	E. D. Price
Phillips U. Ac., Enid	E. V. Zollars,	Pres. ----------
Fairfax	B. E. Richardson	Margaret Christie
Fairview	W. Homer Hill	W. H. Ballard
Geary	W. H. Craddock	L. R. Smith
Granite	C. E. Grady	W. S. Symonds
Guthrie	F. D. Brooks	Chas. E. Green
Okla. Meth. Uni. Acad., Guthrie	Wm. Fielder, Chancellor	----------
Guymon	E. R. Lancaster	Louise A. Wilson
Hartshorne	Bettie Dilworth	Paul N. Campbell
Haskell School of A. Broken Arrow	E. B. Hinshaw, President	----------
Hennessey	Wm. M. Lemay	A. C. Bray
Henryetta	J. T. Hefley	Clifton G. Busby
Hobart	T. E. Bartlett	H. T. Flaugher
Holdenville	H. L. Nicholas	A. M. Cockrell
Hollis	E. M. Castleberry	S. W. Parton
Hugo	H. G. Bennett	S. R. Doyle
Kiefer	John G. Mote	Howard J. Holt
Kingfisher College	Acad., C. B. Moody,	Pres. ----------
Kingfisher	E. S. McCabe	Laura Ghering
Laurence Friends Academy, Gate	----------	Mabel Salmons

Name	Superintendent	Principal
Lawton	W. C. French	H. A. Carroll
Lexington	R. W. Bahner	J. C. Crossman
Lindsay	P. W. Swartz	S. B. Emery
McAlester	C. N. Peak	R. L. McPheron
McLoud	D. C. Adamson	Kirk E. Miler
Madill	T. T. Montgomery	Mel Nash
Mangum	R. M. Caldwell	J. G. Ward
Marietta	J. G. Chapman	Margaret Andrews
Marlow	H. B. Davis	Jas. S. Hollingsworth
Medford	J. O. Allen	Effie M. Renshaw
Miami	M. R. Floyd	Omer Mandeville
Muldrow	W. A. Battles	Alonzo Miller
Murray School of Agri., Tishomingo	S. M. McCool, President	----------
Muskogee	E. S. Monroe	L. E. Weatherwax
Mt. View	F. W. Whinery	Sam Burton
Newkirk	E. B. Wood	A. J. Walter
Norman	N. H. Edwards	D. F. Meyer
Nowata	E. B. Gardner	T. J. Weatherall
Okemah	John F. Harris	Garvin D. Shallenberger
Oklahoma City	G. V. Buchanan	J. G. Masters
Okmulgee	N. O. Hopkins	R. R. Short
Oktaha	W. A. Stackable	----------
Panhandle School of Ag., Goodwell	S. W. Black, President	----------
Pauls Valley	C. C. Clark	Clara Merkle
Pawhuska	R. E. Downing	A. B. Imel
Pawnee	J. M. Stimson	S. J. Stratton
Perry	R. R. Robinson	J. W. Barton
Ponca City	F. M. Kimes	Frank Spreier
Pond Creek	J. E. Arendell	Celia Titt
Porum	Frank E. Van Slyke	Addie Powers
Poteau	C. P. Hicks	Herschel Lewis
Pryor	J. G. Mitchell	W. R. Seat
Purcell	George Bond	Luther White
Ramona	Edith Woodburn	J. I. Cormany
Ryan	A. E. Clark	Opan Nelson
Sallisaw	C. H. Murlin	L. S. Weiser
Sapulpa	A. C. Cohagan	C. H. Woodruff
Sayre	W. T. Fisher	Mary McMurtry
Seminole	M. P. Smith	L. C. Madden
Shawnee	H. G. Faust	B. L. Pilcher

Name	Superintendent	Principal
Skiatook	A. G. Bowles	----------
Snyder	E. H. Homberger	W. B. Burks
Stigler	M. L. Cotton	Geo. C. Wells
Stillwater	G. W. Dunlavy	W. D. Kennon
Stilwell	J. M. Guilliams	Lula B. Jones
Sulphur	T. M. Broadfoot	L. D. Hightower
Tecumseh	Clarence Robison	Lola C. Durham
Temple	A. H. Burris	J. R. Duncan
Thomas	K. W. Harris	C. L. Honnold
Tishomingo	J H. Johnston	W. C. Jordan
Tonkawa, U. P. S.	Lynn Glover, Pres.	----------
Tulsa	E. E. Oberholtzer	F. J. Katz
Henry Kendall Col. Academy, Tulsa	F. W. Hawley, President	----------
Vinita	W. G. Masterson	R. R. Cromwell
Wagoner	J. E. Sullivan	H. B. McCullum
Walter	W. S. Rosamond	E. A. Irvine
Wapanucka	O. E. Walker	J. M. Padgett
Watonga	R. A. Graddy	A. L. Young
Waurika	C. S. Storms	Jennie Bowers
Waynoka	W. G. Helmick	LeRoy Graves
Weleetka	G. W. Hilderbrandt	R. Richard Robinson
Wilburton	Silas Laws	Philip Griebel
Woodward	Geo. C. Wakefield	E. E. Halley
Wynnewood	A. B. Herring	Alberta Carney

List of Affiliated Schools Accredited for 12 to 14 1-2 Units

Apache	A. L. Ives	----------
Broken Arrow	F. L. Humphrey	----------
Broken Bow	C. E. Grubbs	----------
Carnegie	A. C. Armstrong	----------
Coweta	A. E. Haage	Mabel E. Hagberg
Devol	W. D. Franks	----------
Durant	W. H. Echols	I. S. Hinshaw
Davis	R. E. West	----------
Erick	A. R. Harris	Oscar Kinschen
Gage	Will T. Henderson	E. E. Cowan
Grove	Harry L. Haun	----------
Haileyville	L. P. Evans	Frank Bridges
Hinton	C. E. Hutton	Mrs. C. E. Hutton
Idabel	L. E. Quinn	----------
Kaw City	M. L. Fleming	----------

Name	Superintendent	Principal
Keota	C. B. Quicksall	----------
Kingston	John S. Vaughn	----------
Konawa	T. B. Liner	J. C. Moore
Lone Wolf	A. J. Foster	R. H. Cloyd
Marlow	H. B. Davis	J. S. Hollinsworth
Marshall	C. M. Allen	----------
Morris	R. G. Creekmore	----------
Noble	Chas. P. Howell	----------
Okfuskee County H. S., Paden	E. E. Knack	----------
Olustee	A. P. Nelson	J. L. Powers
Quinton	Frank Harper	Mary Ritchie
Randlett	W. B. Christian	W. F. Randle
Spiro	A. E. Riling	G. L. Amos
Stroud	H. O. Shuff	----------
Texhoma	J. L. Kinsey	Mrs. Ura Secord
Vian	W. W. Mills	M. B. Jumper
Waukomis	E. C. Hollar	----------
Welch	H. G. Provines	C. C. Victory
Wetumka	L. M. Graves	----------
Yukon	D. C. Corbin	D. B. Phillips

List of Affiliated Schools Accredited for 8 to 11 1-2 Units

Alva	Guy M. Lisk	Mr. Bhogue
Bixby	I. L. George	----------
Britton	I. L. Harris	I. W. Robinson
Byars	J. R. Small	----------
Canadian	D. C. Roe	----------
Crowder	W. B. Scoggens	----------
Dale	V. I. Correll	----------
Forgan	Irvin Affholder	----------
Gate	Ernest Pickett	----------
Gotebo	Robert Rea	Mabel Duncan
Grandfield	S. P. Smith	J. N. Huff
Harrah	J. D. Hodges	M. W. Pearl
Haskell	Jas. M. Osborne	A. K. Tillotson
Heavener	T. W. Lanham	Mrs. T. W. Lanham
Ingersoll	A. W. Fanning	Norma Gilpin
Jenks	E. H. Lenox	----------
Kiowa	B. M. Gramling	Bessie Johnson
Krebs	T. A. Craighead	----------
Lambert	Floyd E. Miller	----------

Name	Superintendent	Principal
Mooreland	John B. Dail	----------
Mounds	S. L. Johnston	E. P. Baldwin
Prague	----------	Bessie Gilliam
Red Oak	J. A. Leach	----------
Shattuck	R. L. Clifton	L. S. Cott
Tupelo	----------	J. A. Lemon
Valliant	E. O. Shaw	----------
Wewoka	A. L. Kerbow	Carrie Starner
Wister	J. E. Garrett	----------
Yale	L. G. Lewis	----------

List of Affiliated Schools Accredited for 4 to 7 1-2 Units

Arnett	R. L. Seaton	----------
Boynton	J. T. Collier	----------
Braggs	R. C. Hinds	----------
Calvin	E. J. Hayes	----------
Choteau	----------	G. T. Cass
Council Hill	----------	Mrs. M. M. Anderson
Dacoma	C. J. Godfrey	----------
Delaware	----------	A. L. Shattuck
Fallis	----------	E. F. Giblin
Ft. Gibson	B. F. Watson	Bascom Anthony
Gowan	G. B. Dunlap	----------
Howe	----------	Ed. McCarrell
Knowles	Carl Kysar	----------
Lehigh	J. R. Hendrix	Rena Harrington
Lenapah	----------	W. H. Kilgore
Ochelata	----------	L. S. Giffin
Okarche	----------	Chas. Buthod
Pittsburg	B. A. Garside	----------
Quinlan	----------	G. A. Tefft
Red Rock	----------	G. M. Roberts
Sparks	----------	P. E. Perswell
Stonewall	----------	T. F. Pierce
Terral	T. G. Napier	Mrs. A. A. Challey
Texola	----------	C. E. Hilton
Wainright	J. R. Barton	Oma Hatley
Webbers Falls	J. B. Monical	----------

THE GRADUATE SCHOOL

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

ALBERT HEALD VANVLEET, Ph. D.
Dean of the Graduate School, Professor of Botany.

EDWIN DEBARR, Ph. D.
Professor of Chemistry, Vice-President of the University, Director of the School of Chemical Engineering.

JAMES SHANNON BUCHANAN, B. S.
Professor of History, Dean of the College of Arts and Sciences.

JOSEPH FRANCIS PAXTON, A. M.
Professor of Greek and Classical Archaeology.

*ROY GITTINGER, A. M.
Professor of English History.

JAMES WELLINGS STURGIS, Ph. D.
Professor of Latin.

*SAMUEL WATSON REAVES, A. M.
Professor of Mathematics.

JAMES HUSTON FELGAR, A. B., M. E.
Professor of Mechanical Engineering, Dean of the College of Engineering.

FREDRIK HOLMBERG, B. M.
Professor of Music, Dean of the School of Fine Arts.

*SARDIS ROY HADSELL, A. M.
Professor of the English Language.

GUY YANDALL WILLIAMS, Ph. D.
Professor of Physical Chemistry.

*HENRY HIGGINS LANE, M. A.
Professor of Zoology.

JEROME DOWD, M. A.
Professor of Sociology and Economics.

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*On leave of absence.

THEODORE HAMPTON BREWER, M. A.
Professor of English Literature, Director of the School of Journalism.

LUCILE DORA, M. A.
Professor of the Romance Languages and Literatures.

*LOUIS ALVIN TURLEY, A. M.
Professor of Histology and Pathology

MONROE ALLEN FLOYD, M. A.
Associate Professor of History.

HAROLD VEATCH BOZELL, B. S.
Professor of Electrical Engineering, Director of the School of Electrical Engineering.

JOHN HENRY VOSS, M. A.
Associate Professor of German.

HERBERT BANCROFT DWIGHT, B. S., E. E.
Professor of Mechanics.

CHARLES HENRY TAYLOR, M. S.
Professor of Geology, Director of the School of Mining Geology.

WILLIAM PETER HASEMAN, Ph. D.
Professor of Physics.

JOHN ALLEY, A. B.
Professor of Political Science.

*ROY TEMPLE HOUSE, A. M.
Professor of German.

JAMES I. TUCKER, B. S., LL. B.
Professor of Civil Engineering, Director of the School of Civil Engineering.

IRVING PERRINE, Ph. D.
Professor of Stratigraphic Geology and Paleontology.

ANDREW CLARKSON PARSONS, A. B.
Professor of Secondary Education, High School Inspector.

GAYFREE ELLISON, B. S., M. D.
Professor of Bacteriology.

WARREN WAVERLEY PHELAN, Ph. D.
Professor of Psychology, Director of the School of Education.

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*On leave of absence.

Eva Ellsworth Dungan.
Associate Professor of Piano and Public School Music.

Charles Francois Giard.
Associate Professor of Piano and Theory of Music.

Leonard Blaine Nice, Ph. D.
Professor of Physiology.

Edmund Pendleton Randolph Duval, A. M.
Associate Professor of Mathematics.

William Anton Schmidt, M. A.
Professor of the History and Administration of Education.

THE GRADUATE SCHOOL

The University of Oklahoma offers graduate instruction to those who desire a more thorough preparation than is offered by the various undergraduate schools and colleges.

The legislative faculty of the Graduate School is composed of the members of the faculties, with the rank of professor and associate professor, offering graduate work.

ADMISSION

Students holding the bachelor's degree from this university or from some other acceptable institution are admitted to the Graduate School. Other persons suitably qualified may be admitted upon such conditions as may be imposed in each case by the committee on graduate studies.

Candidates for admission make formal application, on the proper blanks, to the dean of the Graduate School, submitting their diplomas and other credentials. Candidates from other institutions must present testimonials as to character and scholarship.

Three classes of students are admitted: (1) those not candidates for an advanced degree; (2) candidates for an advanced degree who are deficient in undergraduate preparation; and (3) those who are prepared to select at once their major and minor subjects and become candidates for a degree at the beginning of their graduate work.

Students, not candidates for an advanced degree, who are graduates from this university, are given permission to register by the dean. Students from other institutions present their credentials to the dean who, on approval of the committee on graduate studies, grants them permission to register.

Applicants for an advanced degree, who are deficient in undergraduate preparation, will have their work evaluated by the committee on graduate studies. When such deficiency has been made up the dean will grant the applicant permission to register and become a candidate for the proposed degree.

Candidates for an advanced degree whose proficiency is certified to by the committee on graduate studies are permitted to register by the dean.

Students from this university who have completed the undergraduate course and have been properly recommended for graduation

may register in the Graduate School even though the degree is not conferred until the close of the school year. Students from this university, who at the beginning of any semester are within three hours of graduation, may count that semester as the first of the two semesters required for residence for the master's degree. Students who are within six hours of graduation at the beginning of any semester may, on approval of the committee on graduate studies, select from the courses offered for graduate work enough to make a total of not more than sixteen hours, and this work may receive such credit towards an advanced degree as the committee on graduate studies may determine.

ADVISERS

The dean of the Graduate School is the official adviser of all students of the school. The professor under whom the student elects his major work, however, becomes his special adviser and chairman of his special committee, which consists of the professors under whom he does his work. The special committee outlines and has general oversight of the student's work, subject to the rules of the Graduate School and the approval of the dean. Enrollment cards must be signed by the major professor and the dean.

DEGREES

The University of Oklahoma offers the following advanced degrees:
Master of Arts.
Master of Science (unqualified.)
Master of Science in Engineering.
Civil Engineer.
Mechanical Engineer.
Chemical Engineer.
Electrical Engineer.

Requirements for the Master's Degree

Candidates who complete at least one year of graduate work, present an acceptable thesis, and pass all required examinations will be recommended by the faculty of the Graduate School for the master's degree.

A total of not less than thirty hours credit must be earned with a grade of A or B. With the approval of the committee on graduate studies, resident work to the extent of fifteen hours may be accepted from some other institution. The last fifteen hours, however, must be done in the University of Oklahoma.

Candidates shall chose a major study and one or two minor studies. To each minor shall be devoted approximately one-half of the

work devoted to the major study. The major and one minor may fall within the same department, but must be taken under different instructors. If two minors are selected, one must be chosen from another department.

Members of the legislative faculty of the Graduate School may not become candidates for a higher degree.

No work done in the major subjects may count towards the master's degree until the departmental requirements as to previous work have been complied with, which shall in no case be less than eleven hours.

At the end of each semester, candidates shall pass such examinations, or make such written reports upon the work as far as completed, as the professors in charge may require.

The subject of the thesis, approved by the student's major professor, must be chosen and reported to the dean not later than four weeks after the student becomes a candidate for this degree. The completed thesis, approved by the student's major professor, must be presented to the dean at least ten days before the commencement at which the applicant expects to take his degree. On recommendation of the major professor, the dean may excuse a student from presenting a thesis.

After final approval and before receiving his degree, the candidate must deposit one original and one duplicate typewritten copy of his thesis with the librarian of the university. The thesis shall be paged and bound according to a prescribed form which may be seen at the university library.

Engineering Degrees

Graduates of this institution holding the degree of Bachelor of Science in engineering or Master of Science in engineering may be granted the professional degree of Engineer, qualified by the school in which the undergraduate work is done, upon the following conditions: The candidate must present acceptable evidence of at least three years of practice in his profession, at least one of which must have been in a position of responsibility. He shall present a satisfactory thesis upon some engineering subject. This thesis shall cover investigation carried on personally by the applicant for the degree. The thesis must be presented in its final form to the dean of the College of Engineering not later than May 1 of the year in which the degree is to be granted. The candidate shall furnish two typewritten bound copies of the thesis and duplicate sets of all drawings, plans, specifications and other material applying to the thesis, to the university for its permanent possession. Candidates must enroll for this degree not

later than November 1 of the school year in which the degree is expected.

SUMMER SESSION—CORRESPONDENCE COURSES

With the consent of the departments concerned, fourteen hours of credit toward a master's degree may be earned through correspondence courses,. Sixteen hours constitute full work for a semester, and eight hours for a summer session. It is therefore possible for a student to complete the work for a degree by attendance upon one semester or two summer sessions, supplemented by fourteen hours of credit earned through correspondence courses. It is earnestly advised, however, and in most cases required, that the student complete two semesters in residence, or three summer sessions in residence supplemented by six hours of credit earned through correspondence courses.

All correspondence courses must be approved by the student's major professor and the dean of the Graduate School.

FELLOWSHIPS

A limited number of fellowships, paying from $180.00 to $225.00 a year, will be available in the Graduate School. The departments in which these fellowships are available will vary from time to time in accordance with the needs of the university. Fellows will be required to give approximately one-fourth of their time to teaching or other work in connection with the department. Applications for fellowships should be made to the dean of the Graduate School before the first of April preceding the college year for which the assignment is made.

COURSES FOR GRADUATE WORK

For description of courses, see the corresponding numbers under the several departments of the College of Arts and Sciences and the College of Engineering.

Courses are listed here in two groups: those suitable for a minor only, and those that may also count towards a major.

Bacteriology:

Minors, 101, 102, 103.

Botany:

Minors, 101, 102, 103, 104. 105, 106. 107.

Chemistry:

Minors, 101, 102, 121, 123.

Majors, 103. 104, 105, 106, 107, 108, 122, 124, 125, 126, 151, 152, 153.

Economics:

Minors, 100, 101.

Majors, 102, 103, 104, 200, 201.

Education:

Minors, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145.

Majors, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 201, 202, 203, 204, 205.

English:

Minors, 110,111, 112, 113, 116, 117, 118, 119.

Majors, 100, 101, 102, 106, 107, 108, 109, 114, 115, 121, 122, 125.

French:

Minors, 100, 101, 103, 104, 105 Education 134.

Geology:

Majors, 100, 101, 102, 103, 104, 105, 106, 107, 111, 112, 113, 200, 201, 202, 203.

German:

Minors, 116, 117, 118, 119, Education 135.

Majors, 110, 111, 112, 113, 114, 115. 120, 121, 123, 124.

Greek:

Minors, 100, 101.

History:

Minors, 105, 151, 152 155, 156, 157, 159, 160, 161,167, 168.

Majors, 101, 102, 106, 108, 109, 110, 158, 209, 210 , 211, 212.

Journalism:

Minors, 100, 101, 102, 104, 105, 115.

Latin:

Minors, 100, 101, 102, 103, 104.

Mathematics:

Minors, 117, 118.

Majors, 122, 125, 126, 131, 135, 136, 137, 138, 141.

Pathology:

Minors, 101, 102, 103.

Philosophy:

Majors, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 112. 113, 114, 115, 201, 202.

Physics:

Minors, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 141, 142.

Physiology:

Minors, 101, 102.

Political Science:

Minors, 100, 101, 102, 103, 104, 105, 106, 200.

Sociology:
Minors, 100, 101, Zoology 104.
Majors, 102, 103, 104, 200, 201, 202.

Theory of Music:
Minors, 108, 109, 110, 112.

Zoology:
Minors, 100, 102, 103, 104, 105, 106, 107, Education 137.
Majors, 200, 201.

Civil Engineering:
Minors, 151, 152, 154, 155, 156, 157, 158, 160, 161.
Majors, 200, 201, 202, 203, 204, 205, 206, 207, 208.

Electrical Engineering:
Minors, 161, 162, 163, 164, 165, 171, 172, 173, 175, 176, 177, 178, 179, 182.
Majors, 201, 202, 203, 204, 205, 206, 207, 208, 209.

Engineering. Major in any of the schools of engineering, 201, 202, 203

Mechanical Engineering:
Minors, 151, 153, 154, 155, 158, 161, 162, 163, 164, 165, 166.
Majors, 200, 201, 202.

Mechanics:
Minors, 151, 152, 153, 154, 155.

Chemical Engineering: (See chemistry.)

THE COLLEGE OF ARTS AND SCIENCES

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

JAMES SHANNON BUCHANAN, B. S.
Dean of the College of Arts and Sciences, Professor of History.

EDWIN DEBARR, Ph. D.
Professor of Chemistry, Director of the School of Chemical Engineering, Vice-President of the University.

JOSEPH FRANCIS PAXTON, A. M.
Professor of Greek and Classical Archaeology.

ALBERT HEALD VANVLEET, Ph. D.
Professor of Biology, Dean of the Graduate School.

*ROY GITTINGER, A. M.
Professor of English History.

JAMES WELLINGS STURGIS, Ph. D.
Professor of Latin.

*SAMUEL WATSON REAVES, A. M.
Professor of Mathematics.

*SARDIS ROY HADSELL, A. M.
Professor of the English Language.

GUY YANDALL WILLIAMS, Ph. D.
Professor of Physical Chemistry.

*HENRY HIGGINS LANE, M. A.
Professor of Zoology.

JEROME DOWD, M. A.
Professor of Sociology and Economics, Director of the School of Commerce and Industry.

THEODORE HAMPTON BREWER, M. A.
Professor of English Literature, Director of the School of Journalism.

LUCILE DORA, M. A.
Professor of Romance Languages and Literatures.

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*On leave of absence, 1914-1915.

*Louis Alvin Turley, A. M.
Professor of Histology and Pathology.

Monroe Allen Floyd, A. M.
Associate Professor of History.

Daniel Webster Ohern, Ph. D.
Special Lecturer on Oklahoma Geology.

John Henry Voss, M. A.
Associate Professor of German.

Charles Henry Taylor, M. S.
Professor of Geology, Director of the School of Mining Geology.

William Peter Haseman, Ph. D.
Professor of Physics.

Errett Rains Newby, B. A.
Secretary, Registrar.

Henry Hubbard Foster, A. B., LL. B.
Professor of Law.

John Alley, A. B.
Professor of Political Science.

*Roy Temple House, A. M.
Professor of German.

Irving Perrine, Ph. D.
Professor of Stratigraphic Geology and Paleontology.

Gayfree Ellison, B. S., M. D.
Professor of Bacteriology.

Andrew Clarkson Parsons, A. B.
Professor of Secondary Education, High School Inspector.

Warren Waverley Phelan, Ph. D.
Professor of Psychology and Education, Director of the School of Education.

Leonard Blaine Nice, Ph. D.
Professor of Physiology.

Emdund Pendleton Randolph Duval, M. A.
Associate Professor of Mathematics.

William Anton Schmidt, M. A.
Professor of the History and Administration of Education.

---

*On leave of absence, 1914-1915.

RICHARD GRAY SOUTAR, B. A.
Professor of Physical Education.

LLOYD BURGESS CURTIS, B. S.
Assistant Professor of Spanish.

*LOUISA BROOKE, B. A.
Assistant Professor of English.

ARTHUR BARTO ADAMS, M. A.
Assistant Professor of Economics.

PATRICIO GIMENO, B. A.
Assistant Professor of Art, Instructor in Italian.

*CHARLES EARNEST HAMNER, M. D.
Assistant Professor of Bacteriology.

BURTON FRANK TANNER, B. L.
Assistant Professor of Public Speaking.

WARDER CLYDE ALLEE, Ph. D.
Assistant Professor of Zoology.

ELIZABETH CHURCH, Ph. D.
Assistant Professor of English, Adviser of Women.

HAROLD HARVEY HERBERT, A. B.
Assistant Professor of Journalism.

EARL SELLERS PORTER, M. A.
Assistant Professor of Chemistry.

ANDREW ROBERT RAMEY, M. A.
Assistant Professor of English.

BENJAMIN GILBERT OWEN.
Assistant Director of Physical Training and Coach.

LAWRENCE NELSON MORGAN, B. A.
Instructor in English.

RACHEL REVELL, Ph. B.
Instructor in Physical Training.

KENNETH POTTER MONROE.
Instructor in Chemistry.

JOSEPH BRADFIELD THOBURN, B. S.
Instructor in History.

---

*On leave of absence, 1914-1915.

Alexander Watts McCoy, M. A.
Instructor in Geology.

Edward Everett Dale, A. M.
Instructor in History.

William Harrison Emig, A. B.
Instructor in Biology.

Harry Clinton Gossard, Ph. D.
Instructor in Mathematics.

Addie Maloy, B. A.
Instructor in Physics.

Edgar Meacham, B. A.
Instructor in Mathematics.

Mollie Anne Peterson, Ph. B.
Instructor in Art.

Herbert Victor Louis Sapper, B. A.
Instructor in Bacteriology.

Gilbert Harmer Smith, B. A., B. D.
Instructor in English.

August Steitz, Ph. D.
Instructor in German.

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is the center of the University of Oklahoma out of which the professional schools have grown and around which they are grouped. A large part of its instruction is foundational for the best work in the professional schools, and there is a growing tendency to require one or more years of general college training for admission to a professional school.

The College of Arts and Sciences affords many of its students an opportunity to test themselves in various fields of scholastic endeavor pending the time when they shall discover the dominant interests of their lives. For many others the college presents subjects or groups of subjects directly related to the student's chosen line of professional endeavor; for example, in teaching, in journalism, in commerce and industry, and in various lines of scientific work.

ADMISSION

The requirements for admission to the College of Arts and Sciences are explained under the head of "Admission."

Deficiencies in Entrance Credits

For every unit of entrance credit not otherwise satisfied at the end of the student's first year in residence, five hours will be deducted permanently from the credit made by him during the year.

SPECIAL INFORMATION ABOUT ENROLLMENT

In addition to the information about enrollment given under "General Information," students in the College of Arts and Sciences will be governed by the following:

1. Work begun in a subject should ordinarily be carried through the year. This is especially true in courses of an elementary character.

2. **Amount of Work:** No student in the College of Arts and Sciences may take more than sixteen hours work (exclusive of physical training) nor less than twelve hours work in any semester except as provided below:

a. A student making a grade of A in sixteen hours work in any semester and receiving no mark lower than B— in that semester

may enroll for twenty hours work (including physical training) for his next semester.

b. A student making an average grade of A— in sixteen hours of work in any semester and receiving no mark lower than B— in that semester may enroll for eighteen hours work (in addition to physical training) for his next semester.

c. A student who, at the beginning of his senior year, lacks thirty-five or thirty-six hours of having the 124 hours required for graduation, may enroll for eighteen hours the first semester of his senior year, and if he makes passing grades in this semester's work, may enroll for eighteen hours the last semester,

d. Students enrolling for any semester before the grades for the preceding semester are reported should enroll for the normal amount of work. Those entitled to excess hours may change their enrollment accordingly after the grades are reported.

e. These regulations regarding excess hours are not in effect during the summer session.

f. A student may take less than twelve hours work only with the approval of the dean.

3. In matters of enrollment the major professor is the adviser of all students from the beginning of the sophomore year; the dean, of unclassified students and freshmen.

4. Students expecting to graduate in the schools of education, commerce and industry, or journalism, must declare their intention of entering these schools at the beginning of their sophomore year, and must make application for admission to these schools at the beginning of their junior year.

5. Students expecting to take one of the combined courses must declare their intention of doing so at the time indicated below:

Combined course (five years) in Arts and Sciences and Engineering, (B. A. and B. S. degrees), at the beginning of sophomore year.

Combined course (six years) in Arts and Sciences and Medicine, (B. S. and M. D. degrees), at beginning of sophomore year.

Combined course (six years) in Arts and Sciences and Law, (B. A. and LL. B. degrees), at beginning of junior year.

6. Students expecting to enter the School of Medicine, who enroll in the College of Arts and Sciences for the year of pre-medical college work, must at the beginning of their freshman year declare their intention of entering the School of Medicine.

7. Students from other schools who receive credits for ninety hours advanced standing and are unable to choose a major, will be required to select at least two-thirds of the work necessary to complete their course from courses for undergraduates and graduates.

EXAMINATIONS

The College of Arts and Sciences requires that an examination be given in each course at the time specified in the regular examination schedule. No student may be excused from the final examination; seniors, however, are excused from taking examination in the semester in which they complete their work for a degree, in all classes in which they are making a passing grade.

GRADUATION IN LESS THAN FOUR YEARS

It is possible to complete the requirements for graduation by attending the university three years and three summer sessions.

The regulations under the heading "Amount of Work" above make it possible for a good student to be graduated in less than the regular time by taking extra hours.

REQUIREMENTS FOR GRADUATION

To secure the bachelor of arts degree from the College of Arts and Sciences the candidate must complete 124 hours of work, together with not less than 174 points, in accordance with the plan hereinafter set forth.

Definition of Hour

Every hour for which credit is given is understood to represent for the average student approximately three hours of work a week through one semester. Thus, in lecture or recitation work, one hour is allowed for the lecture or recitation and two hours for preparation, reading, or study. Where the time is wholly occupied by drawing, or laboratory, or field work, three hours a week for one semester are expected of the student for each hour that counts toward graduation.

Value of Grades in Points

Each hour's work for which a grade of A or A— is received shall count as three points; a grade of B or B—, as two points; a grade of C, as one point; a grade of C—, as no points.

The 174 points will be reduced, in the case of students entering with advanced standing, in the proportion that the number of hours of advanced standing is to 124. This also applies to all credits earned in the university prior to July 1, 1915.

REGULAR PLAN OF WORK

The completion of the 124 hours usually requires four years. Of these the first or freshman year is spent in general or introductory work, comprising courses in several departments and in widely separated subjects. During the second, third, and fourth, or sophomore, junior, and senior years, the student may confine his work within

certain comparatively narrow limits. The plan of the entire four years' work is known as the "major elective system." It consists of four parts: I, prescribed freshman work; II, major study; III, group electives; and IV, free electives.

I. Prescribed Work

(a)	English 1, 2	8 hours.
(b)	One Natural Science (Botany 1, 2; or Chemistry, 1, 2; or Geology 1, 2; or Physics 1, 2; or Zoology 1, 2).	8 hours.
(c)	One Ancient Language	8 hours each from two of these three — 16 hours.
(d)	One Modern Language	
(e)	Mathematics	
(f)	Political Science 1, or History 9 or 10	4 hours.
(g)	Physical Training	2 hours.

Exemptions

Students who present a sufficient amount of entrance credit in the subjects listed under (c), (d), and (e) may be relieved wholly or in part from these requirements. The exemptions are as follows:

(c) Four units of Latin will relieve from 8 hours ancient language.
Three units of Latin will relieve from 4 hours ancient language.

(d) Two units of one modern language will relieve from 8 hours modern language.
One unit of one modern language will relieve from 4 hours modern language.

The units in modern language must be in addition to the two units of foreign language required for admission.

(e) Three and one-half units of mathematics will relieve from 8 hours mathematics.
Three units of mathematics will relieve from 4 hours mathematics.

II. Major and Minor Subjects

At the beginning of his sophomore year each student must choose a major study. The major may be chosen from any department offering sufficient work. The head of the department in which the major lies becomes the student's official adviser throughout the remainder of his course. The student wishing to major in a department must make written application, on a blank provided by the registrar, to the head of the department. This application, when approved by the dean of

the college and the head of the department, must be filed with the registrar. The work in the major study must consist of:

(a) At least 20 hours in addition to prescribed courses, accepted for major credit in the department chosen.

(b) At least 12 hours in a closely related subject within the same group as the major subject.

The major professor may require a thesis to be written under the following conditions:

At the beginning of his senior year, i. e., at the first enrollment after he has completed ninety hours, the student must file with the registrar a subject for a thesis, approved by his advisory professor, upon some phase of his major work. The finished thesis must be submitted to the professor in charge not later than the first Monday in May, and two copies of the thesis, bound in an acceptable manner and according to the required specifications, shall be filed with the librarian. Four hours' credit is given for this thesis.

III. Group Electives

The major student must complete in addition to prescribed courses at least eight hours in a department in each of the two groups that do not contain the major study.

The groups are as follows:

Group I. The Languages: English, Greek, Latin, German, French, Spanish, Italian, public speaking.

Group II. Mathematics and Natural Sciences: Anatomy, bacteriology, botany, chemistry, geology, mathematics, pathology, physics, physiology, zoology.

Group III. The Social Sciences: Economics, education, history, philosophy, political science, sociology.

IV. Free Electives

In addition to the requirements of prescribed courses, major and minor studies, and group electives, the student shall choose enough other courses to bring the total number of hours up to 124, but not more than a total of forty hours in any department shall be counted toward a degree.

ADVISERS TO STUDENTS

At the time of his registration each freshman student in the College of Arts and Sciences is assigned to a member of the advisory committee, who is his adviser until his major subject is chosen. The major professor is the adviser during the sophomore, junior, and senior years.

The relation of the adviser to the student is, as far as possible, that of a friendly counselor, ready at all times to assist by encourage-

ment, advice, or warning, to the end that the student may be directed along lines of high ideals in scholarship and right living. The adviser receives monthly reports from each of the student's instructors, and in case these reports show diminishing quality of work or excessive absences, the adviser summons the student for consultation. Advisers are glad to co-operate with parents and guardians in any way possible.

Students From Other Colleges and Universities

Students from other schools who receive advanced credits for ninety hours and are unable to choose a major will be under the control of the dean of the college.

ELECTIVES FROM OTHER SCHOOLS IN THE UNIVERSITY

A student may elect and count toward the Bachelor of Arts degree subjects given in any one of the other colleges and schools of the university as follows:

College of Engineering: Not more than twenty hours elected from the following courses: Mechanical Drawing 1, 2, 3; Civil Engineering 1, 2, 3, 53; Mechanics 151, 152, 153, 154, 155; Mechanical Engineering 1, 4; Electrical Engineering 51, 52, 53, 54, 164, 165, 178.

A student, by judicious selection of his courses, may complete the work for the B. A. degree and the B. S. degree in engineering in five years. Such student will be under the direction of his major professor and the director of the school in which he takes his engineering degree. He must file with the registrar at the beginning of his junior year an application card approved by both deans declaring his intention to take the two degrees.

School of Fine Arts: Courses in the history and theory of music and the history of art, the total credit not to exceed twenty-seven hours, of which twenty-one hours may be in music and six hours in art.

School of Law: A student who has ninety-two hours credit may under certain conditions elect from the subjects offered in the School of Law not to exceed twenty-six hours.

School of Medicine: Students who have completed as many as sixty academic hours in the College of Arts and Sciences and who can satisfy the entrance requirements may enter the School of Medicine, and on completion of the first two years' work will be recommended for the degree of Bachelor of Science in medicine in the College of Arts and Sciences. Subjects given in the School of Medicine will not be counted in making up the sixty hours required in the College of Arts and Sciences.

In addition to satisfying the entrance requirements of the College

of Arts and Sciences, the student must complete the prescribed work, the group electives, and the subjects prescribed for admission to the School of Medicine.

The following outline of courses will comply with these requirements:

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
Chemistry 1	4	Chemistry 2	4
Modern Language	4	Modern Language	4
Botany 1	4	Zoology 2	4
Physical Training	1	Physical Training	1
	17		17
Physics 1	4	Physics 2	4
Pol. Sci. 1 or History 9 or 10	4	Physiology 1	4
*Mathematics or Ancient Language	4	*Mathematics or Ancient Language	4
General Psychology	4	Experimental Psychology	4
Physical Training	1	Physical Training	1
	17		17

*Students offering four units of Latin, or three and one-half units of mathematics for admission, may substitute modern language or other subjects.

FIELD WORK

At the discretion of the head of the department, credit not to exceed one hour for each two weeks spent in the field may be given in the departments of botany, geology, and zoology, provided the student enrolls for work which shall be outlined and carried on under suitable departmental direction.

SCHOOLS

In addition to the general elective courses, the College of Arts and Sciences includes three schools, namely: the School of Commerce and Industry, the School of Education, and the School of Journalism. For the purpose of enrollment the major professor and the director of the school shall be joint advisers. An outline of the work done in each of these schools is given below.

SCHOOL OF COMMERCE AND INDUSTRY

The School of Commerce and Industry is organized within the College of Arts and Sciences. Its purpose is to train students for a variety of commercial and industrial vocations. The courses offered aim to give a practical knowledge of business correspondence, business forms and documents, accounting (applied to private and governmental affairs), auditing, salesmanship, advertising, credits and col-

lections, organization and management of business, partnerships and corporations, the principles and practices of banking and insurance, the value of the mineral and vegetable resources of the world, the processes of developing them, and the methods of marketing, manufacturing and transporting commercial products.

Admission: Students who wish to enter the School of Commerce and Industry must have completed two years' work in the College of Arts and Sciences. This work should include the prescribed courses, a major subject, a minor subject, and the group electives as specified under the College of Arts and Sciences. The major subject, the minor subject, and the group electives should be commenced in the sophomore year but may be completed after admission to the School of Commerce and Industry. The major subject should be economics.

Applicants twenty-one years of age or over, not candidates for a degree, may be admitted as unclassified students to such work as they are prepared to take.

The following outline of courses is recommended for the first two years:

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
Chemistry 1	4	Chemistry 2	4
Mathematics 5 or Ancient Language	4	Mathematics 9 or Ancient Language	4
Pol. Sci. 1.	4	History 10	4
Physical Training	1	Physical Training	1
	17		17

Second Year

Economics 1	4	Economics 5	2
Sociology 1	4	Sociology 2	4
General Psychology	4	Geology 3 (Economic Geology)	4
Modern Language	4	Modern Language	4
		History 54	2
Physical Training	1	Physical Training	1
	17		17

Requirements for Graduation: Candidates for graduation in the School of Commerce and Industry will be required to complete the major and the minor subjects previously selected, to fulfill the group requirements, to take such courses in economics, political science and sociology as the director of the School of Commerce and Industry may

approve, and in all other respects to comply with the requirements for graduation from the College of Arts and Sciences.

A certificate in commerce and industry will be awarded at the time of graduation to these who complete those requirements.

These requirements are met by the following outline of subjects:

Third Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Econ. 4 (Money & Banking)	4	Econ. 6 (Labor Problems)	4
Philosophy 1 (Gen. Psych.)	4	Econ. 102 (Insurance)	2
Econ. 8 (Business Adm.)	2	Econ. 9 (Bus. Adm.)	2
Econ. 104 (Rural Economics)	2	Pol. Science 105	4
Modern Language	4	Modern Language	4
	16		16

Fourth Year

Soc. 102 (Social Evolution)	4	Econ. 5 (Public Finance)	4
Econ. 100 Industrial Comb.	4	Econ. 103 (Statistics)	2
Econ. 101 (Transportation)	2	Econ. 201 (Econ. Seminary)	4
Econ. 200 (Econ. Seminary)	4	Pol. Science 106	2
Botany 5 (General Forestry)	2	Botany 6 (Industrial Botany)	4
	16		16

SCHOOL OF EDUCATION

The School of Education is organized within the College of Arts and Sciences. Its purpose is to select and organize work done in the various departments of the university in such a way as to be most helpful to prospective teachers. Its specific aims are: first, to prepare high school teachers thoroughly qualified in two or more academic subjects and possessing the professional training necessary to make their teaching effective; second, to prepare teachers of education and psychology for normal schools and colleges; and third, to present such courses in theory, history and administration of education as will be valuable to principals, superintendents, and other educational administrative officers.

Admission: Applicants for admission to the School of Education must have completed two years' work in the College of Arts and Sciences. This work should include the prescribed courses, a major subject, a minor subject and the group electives as specified under the College of Arts and Sciences. The major subject, the minor subject, and the group electives should be commenced in the sophomore year but may be completed after admission to the School of Education.

General psychology and educational psychology should be included in the electives of the sophomore year.

Applicants twenty-one years of age or over, not candidates for a degree, may be admitted as unclassified students to such work as they are prepared to take.

The following outline of courses is recommended for the first two years:

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
Natural Science, Botany 1, or Chemistry 1, or Geology 1, or Physics 1, or Zoology 1,	4	Natural Science, continued Botany 2, or Chemistry 2, or Geology 2, or Physics 2, or Zoology 2.	4
*Two courses out of the three groups following:		*Continuation of two of the three groups following:	
Ancient Languages: Latin, or Greek	4	Ancient Languages: Latin or Greek	4
Modern Languages: French, or German, or Spanish, or Italian	8	Modern languages: French, or German, or Spanish, or Italian	8
Mathematics	4	Mathematics	4
Physical Training	1	Physical Training	1
	17		17

Second Year

Pol. Sci. 1, or History 9 or 10	4	Free Electives	4
Major Subject	4	Major Subject	4
Group Electives	4	Group Electives	4
Philosophy 1	4	Education 2	4
Physical Training	1	Physical Training	1
	17		17

It is recommended that Zoology 1 and Sociology 1 be included among the electives.

*Note: For exemptions see "Prescribed Work, College of Arts and Sciences."

Requirements for Graduation: Candidates for a degree in the School of Education will be required to complete the major and the minor subjects previously selected, to fulfill the group requirements, to take at least sixteen hours in education and psychology in addition to general psychology and educational psychology, and in all other re-

spects to comply with the requirements for graduation from the College of Arts and Sciences.

The professional work must include not less than four hours in psychology, the methods of teaching in the students' major and minor subjects, and such courses in education as the director of the School of Education may approve. These requirements are met by the following outline of subjects:

Third Year

First Semester

Course	Hours
Major Subject	4
Minor Subject	4
Group Electives	4
Education 4	2
Education 110	2
	16

Second Semester

Course	Hours
Major Subject	4
Minor Subject	4
Group Electives	4
Education 5	2
Education 101	2
	16

Fourth Year

Course	Hours
Major Subject	4
Free Electives	8
Psychology	4
	16

Course	Hours
Minor subject	4
Free electives	8
Methods in major subject	2
Methods in minor subject	2
	16

NOTE: A student in the School of Education whose major subject is in Group I or in Group II will be allowed to fulfill the requirements of Group III with Sociology 1 (4 hours) and Philosophy 3 (Logic); (4 hours.)

Students entering with advanced standing must complete at least eight hours in education and psychology in residence.

Students preparing to become teachers of education and psychology in normal schools and colleges must complete a major and the equivalent of two minors, one of which may be in some department other than education or psychology.

PRACTICE TEACHING

Arrangements have been made for observation and practice teaching in the local high school, A limited number of students enrolled in the School of Education may teach under the supervision of the department, thus offering a practical apprenticeship in teaching and class management. The maximum credit allowed for practice teaching is four hours. No credit is given for previous experience in teaching.

EDUCATIONAL INVESTIGATION AND EXPERIMENTATION

The newly established Department of Measurement, Efficiency, and Standardization is meeting the growing demand for measurement of school children.

The work of the department is four fold: first, a determination, in such subjects as arithmetic, handwriting, spelling, English composition and other branches of the elementary curriculum, of the existing conditions throughout the state, and of the improvement resulting to pupils after a year's work under scientific measurement; second, the collection and tabulation of these results for the general good of the superintendents and the teachers of the state; third, the planning and supervising of experimental work designed to improve the efficiency of existing methods; and fourth, the laboratory examination and study of the special difficulties of sub-normal and super-normal children.

CERTIFICATES FOR TEACHERS

Teachers' Certificates for Graduates

The regulations of the State Board of Education provide that graduates of the School of Education who have complied with the specia requirements enumerated above and who are recommended by the faculty of the School of Education as possessing other qualifications which fit them for teaching, will be granted a teacher's life certificate valid in the public schools of the state.

This certificate may also be granted to persons who receive higher degrees from the university provided that in their undergraduate and graduate work combined they have complied with the professional and academic requirements enumerated above and have done at least nine hours in education in this university.

Teachers' Certificates for Undergraduates

The Board of Education has provided that persons who have finished the first two years' work of the university and have had regular courses in psychology and education, may be granted a certificate good for two years, of equal standing with a first grade county certificate, after such certificate has been registered with the county superintendent of the county in which the teacher desires to teach. Such certificate shall not be subject to renewal.

Examinations for First, Second, and Third Grade State Certificates

An examination of candidates for any one of the various grades of state certificates is held at the university the latter part of May and the latter part of July.

Recommendation of Teachers

The Committee on Recommendations collects data concerning graduates and students who desire to teach in Oklahoma for the purpose of assisting superintendents and school boards as far as possible in the proper selection of teachers.

Those interested in securing teachers or positions should address the Committee on Recommendations, University of Oklahoma, Norman, Oklahoma.

SCHOOL OF JOURNALISM

The School of Journalism is organized within the College of Arts and Sciences. Its purpose is to prepare students for the profession of journalism and to permit them, at the same time, to obtain a college degree. The work in journalism is not separate and independent, but it is based upon and accompanied by the study of fundamental and allied subjects.

Admission: Students who wish to enter the School of Journalism must have completed two years' work in the College of Arts and Sciences. This work should include the prescribed courses, a major subject, a minor subject, and the group electives as specified under the College of Arts and Sciences. The major subject, the minor subject and the group electives should be commenced in the sophomore year, but may be completed after admission to the School of Journalism. Journalism 1 and 2 should be included in the electives of the sophomore year.

Applicants twenty-one years of age or over, not candidates for a degree, may be admitted as unclassified students for such work as they are prepared to take.

Requirements for Graduation: Candidates for graduation in the School of Journalism will be required to complete the major and the minor subjects previously selected, to fulfill the group requirements, to take sixteen hours in journalism in addition to Journalism 1 and 2, and in all other respects to comply with the requirements for graduation from the College of Arts and Sciences.

By this arrangement the student will begin his professional courses in journalism in the sophomore year, and will complete twenty-four hours of journalism in the period of three years. It is recommended that the free electives be selected from the social science group (economics, education, history, philosophy, political science, sociology) or from the language group (English, Greek, Latin, German, French, Italian, Spanish, public speaking). In addition to developing his powers of composition and familiarizing himself with the technique of journalism, the student should secure a broad and thorough under-

standing of social, industrial, and historical conditions, and acquire a knowledge of the literature of his own language and that of other languages.

Below may be found an outline of the work recommended to students who desire to plan their whole course with a view to the pursuit of journalism as a profession.

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
Natural Science, Botany 1, or Chemistry 1, or Geology 1, or Physics 1, or Zoology 1.	4	Natural Science, continued Botany 2, or Chemistry 2, or Geology 2, or Physics 2, or Zoology 2.	4
*Two courses out of the three groups following:		*Two courses out of the three groups following:	
Ancient Languages: Latin or Greek	4	Ancient Languages: Latin, or Greek	4
Modern Languages: French, or German, or Spanish, or Italian	4	Modern Languages: French, or German, or Spanish, or Italian	4
Mathematics	4	Mathematics	4
	8		8
Physical Training	1	Physical Training	1
	17		17

*Note: For exemptions see "Prescribed Work, College of Arts and Sciences."

Second Year

Pol. Sci. 1, or History 9 or 10	4	Free Electives	4
Major Subject	4	Major Subject	4
Group Electives	4	Group Electives	4
Journalism 1	4	Journalism 2	4
Physical Training	1	Physical Training	1
	17		17

Third Year

Major Subject	4	Major Subject	4
Minor Subject	4	Minor Subject	4
Group Electives	4	Group Electives	4
Journalism	4	Journalism	4
	16		16

Fourth Year

Major Subject	4	Major Subject	4
Free Electives	4	Free Electives	8
Journalism	4	Journalism	4
Minor Subject	4		
	16		16

A certificate in journalism will be awarded at the time of graduation to those who complete these requirements.

Student Publications: Students in journalism are offered many opportunities for practical experience in journalistic work. In addition to The News Journal and The News Letter, (university publications upon which students are given practice), the journals published by the students themselves, namely, The University Oklahoman, formerly The Umpire, a semi-weekly newspaper ranging in size from four to eight pages; The University Magazine, a monthly literary periodical; and The Sooner, the junior annual, afford excellent opportunity for editorial, reportorial, and business practice.

The local correspondence for newspapers in Oklahoma and adjacent states gives practice and is usually remunerative to students interested in journalism.

DESCRIPTION OF COURSES

NOTE:—First semester courses are marked a. Second semester courses are marked b. Courses with no letter attached are given both semesters.

ANATOMY

Professor Turley, Professor Lane, Dr. Sorgatz

Primarily for Undergraduates

Histology I. Normal Histology: See Histology 1, School of Medicine.

Zoology 103b. Vertebrate Embryology: See Zoology.

ASTRONOMY

Professor Reaves, Dr. Gossard

Primarily for Undergraduates

Astronomy Ib. Elementary Astronomy: From lectures and the text the student will be given a general review of the subject, and the class room work will be supplemented by direct observation of the sky. This is a course for beginners and does not require mathematics. Prerequisite, trigonometry. 4 hours.

BACTERIOLOGY

Professor Ellison, Professor Turley, Assistant Professor Hamner, Mr. Sapper

The work in this department is designed to meet four requirements; viz., general culture, a preparation for research, a more detailed knowledge of certain important organisms than is given in the biological courses, and a training in the essentials for the practice of medicine. The courses are open to all students of college rank on the approval of the instructor in charge.

Bacteriology 1 is required of students of medicine.

Bacteriology 1, 2, and 3 may not be counted as major work.

Courses in pathology may be combined with bacteriology for major work.

Primarily for Undergraduates

Bacteriology Ia. General Bacteriology: This course includes a detailed study of the more important forms of pathogenic and non-

pathogenic organisms with methods of their isolation from body fluids, water, foods, etc., and their relation to human life. Lectures, laboratory, assigned readings, and reports. Muir and Ritchie, and Heinneman. Required of medical students. Lectures and laboratory. Deposit required. Professor Ellison. 5 hours.

Bacteriology 2a. Domestic Bacteriology: A study of the principles of bacteriology; the relation of microorganisms to domestic science; the relation of microorganisms to disease, and the means of dissemination of disease-producing organisms. This course is designed especially for students in domestic science, and for teachers. Lectures, demonstrations, and assigned readings. Professor Ellison. 3 hours.

Bacteriology 3a. Sanitary Bacteriology: A study of the fundamental bacterial activity; the analysis of water, soil, and milk, the testing of disinfectants; a study of septic tanks and the problems of public sanitation. This course is designed especially for students in engineering. Not open to students in medicine. Laboratory, conferences, and lectures. Deposit required. Professor Ellison. 4 hours.

Bacteriology 5a. Pharmaceutical Bacteriology: A study of the fundamental principles of bacteriology, the relation of bacteria to disease, the study of the specific microorganisms of disease; immunity and serum therapy; the preparation and standardization of bacterines, serums, and antitoxins; and disinfectants. This course is designed especially for students of pharmacy. Lectures, assigned readings, and demonstrations. Professor Ellison. 2 hours.

For Undergraduates and Graduates

Bacteriology 101b. State and Municipal Laboratory Methods: Laboratory course with lectures on the methods of water, soil, food, air, body-fluids, and sewage examinations; the standardization of disinfectants; laboratory diagnosis. Prerequisite, Bacteriology 1. Deposit required. Professor Ellison. 4 hours.

Bacteriology 102a. Research Bacteriology: The student will pursue a definite line of research on a subject of bacteriology selected after a consultation with the instructor in charge. This course is open to all students of the university who have the necessary prerequisites, and is designed especially for those who take major work in bacteriology. Laboratory, conferences, assigned readings, and reports. Deposit required. Prerequisite, Bacteriology 1 and 101. Professor Ellison. 4 hours.

Bacteriology 103b. Research Bacteriology: A continuation of Bacteriology 102. Deposit required. Professor Ellison. 4 hours.

BOTANY

Professor Van Vleet, Mr. Emig

Botany 1 and Botany 2 are introductory, and satisfy the requirements of Group II. Work may begin with either course, and both courses are general electives for those not using them to satisfy the group. Botany 1 also satisfies the entrance requirement in botany for medical students.

Bacteriology I. (General Bacteriology): May count towards a major in botany.

Primarily for Undergraduates

Botany Ia. General Botany: Instruction in this course is divided into two periods. The first period extends from the beginning of the semester to the middle of November. The second period includes the remainder of the semester.

PERIOD 1. A general survey of the properties and activities of protoplasm, and of the life processes of plants, including photosynthesis, respiration, transpiration, absorption, conduction, digestion, nutrition, and growth. Four recitations and four hours laboratory.

PERIOD 2. A study of representative forms of thallophytes, bryophytes, and pteridophytes; special attention is given to methods of reproduction, the evolution of structure and function, life histories of the forms studied, with a comparative study of the groups. Two recitations and six hours laboratory. 4 hours.

Botany 2b. General Botany: A general review of the spermatophytes. Instruction in this course is divided into two periods. The first period extends from the beginning of the semester to the first of April. The second period includes the remainder of the semester.

PERIOD 1. General morphology of the spermatophytes. Special attention is given to reproduction and to the organization and structure of the plant members. Two recitations and six hours laboratory.

PERIOD 2. Ecology, and classification of the local angiosperm flora. In ecology, special attention is given to pollination and seed dispersal, factors of environment, plant formations, and laws of plant migration. In the classification of the angiosperms representative families are studied with drill in the use of the plant keys in the determination of species. Lectures, laboratory, and field excursions. 4 hours.

Botany 3a. Pharmaceutical Botany: A study of the general morphology and histology of plants. For students of pharmacy only. Lectures, text, and laboratory. 4 hours.

Botany 4b. Pharmaceutical Botany: Instruction in this course is divided into two periods. Period 1 extends from the beginning of

the semester to the first of April. Period 2 includes the remainder of the semester.

PERIOD 1. A study of powdered drugs, their identification and adulterations. Lectures, text, and laboratory.

PERIOD 2. Classification of spermatophytes, with special reference those yielding vegetable drugs. Lectures, laboratory, and field work. 4 hours.

Botany 5a. General Forestry: A general presentation of the history, objects, methods, and economic importance of forestry. This course is designed especially for students of political economy and others who wish a general knowledge of the subject. Lectures and assigned readings. Open to all students of college rank except freshmen. 2 hours.

Botany 6b. Industrial Botany: A study of the origin, cultivation, and distribution of plants yielding products of economic value, the nature and use of these products, and the methods by which they are obtained from the plants; especially valuable to students of political economy. Open to juniors and seniors, and to others who have had Botany 1 or 2. Botany 6 may by special permission be counted as graduate work by those who have completed Botany 1 and 2. 2 hours.

Botany 7b. Household Botany: The fundamental principles of plant growth and habits, considered with special reference to their application to plants in their relation to the home. The course will include a brief review of vegetable foods and fibers. Special attention will be given, however, to the description, classification, propagation and culture of ornamental plants, and to the general principles of ornamental planting. No prerequisite in botany required. This course may not be substituted for Botany 1 or Botany 2 in satisfying the group requirements. 2 hours.

Botany 8a. Landscape Gardening: This course deals with landscape principles as they apply especially to civic improvement. A study will be made of plans for street planting, and the ornamentation of school grounds, city parks, and home grounds. Special attention will be given to the varieties of trees, shrubs, and other perennials suitable for such planting. Should be preceded by Botany 7, or a course in general botany. 2 hours.

For Undergraduates and Graduates

Botany 101a. Physiology and Ecology: A study of the principal physiological processes; viz., photo-synthesis, respiration, transpiration, absorption, conduction, digestion, assimilation, nutrition, and growth: pollination, fertilization, reproduction, and seed distribution; response to environment, and the origin of new forms by selection,

mutation, hybridization and adaptation; grouping, invasion, succession, zonation. Open to students who have completed Botany 1 and 2. Four lectures and four hours laboratory or field work. 4 hours.

Botany 102b. Systematic Botany: A study of the development and genetic relationships of angiosperms. Opportunity is afforded students to become proficient in the determination of species and types. Lectures, laboratory, and field work. Open to students who have completed Botany 1 and 2. 4 hours

Botany 103a. Dendrology: A study of the structure and characteristics of forest trees. Special attention is given to the native trees of Oklahoma. Lectures, laboratory, and field work. Open to students who have completed Botany 1 and 2. 2 hours.

Botany 104a. Histology: Instruction in the modern methods used in the collection and preservation of class material in bulk. A study of the priciples of fixing and staining and the various other processes of microtechnique necessary in the preparation of microsopical slides. Open to students who have completed Botany 1 and 2 Two lectures and six hours laboratory. Deposit required. 4 hours.

Botany 105b. Cytology and Embryology: The application of special histological methods with a study of nuclear and cell division from preparations made by the student. Open to students who have completed Botany 1, 2, and 104. Two lectures and six hours laboratory work. Deposit required. 4 hours.

Botany 106a. Morphology and Taxonomy of the Bryophytes: A study of typical mosses and liverworts. Field trips and the collection of material. The lectures will deal with the evolution, relationships, morphology, and classification of this group. Open to students who have completed Botany 1 and 2. One lecture and three hours laboratory work. 2 hours.

Botany 107b. Morphology and Taxonomy of the Fungi: A general course covering the more important types of fungi. Field trips and the collection of material. Open to students who have completed Botany 1 and 2. One lecture and three hours laboratory work. 2 hours.

Education 136a. Teacher's Course in Botany: Plant studies and methods. Intended primarily for teachers of botany in Oklahoma high schools. Discussions and illustrations of methods of teaching botany, directions for laboratory equipment, the collection, and preservation of material for class use. The aim is to present the subjects of nature study and botany as they should be taught in the public schools. Open to students who have completed Botany 1 and 2. 2 hours.

CHEMISTRY

Professor DeBarr, Professor Williams, Assistant Professor Porter, Mr. Monroe

Primarily for Undergraduates

Chemistry 1 may not be counted as major work.

Chemistry 1. General Chemistry: Laboratory and lectures with recitations. Students are required to use the chemicals and chemical apparatus of the laboratory in this course. Deposit required.

Section 1, first semester. Mr. Monroe.

Section 2, second semester. Assistant Professor Porter.

Section 3, first semester. Mr. Monroe.

Second semester. Mr. Monroe.

4 hours.

Chemistry 2b. General Chemistry: Laboratory and lectures. Prerequisite, Chemistry 1. Deposit required. Mr. Monroe. 4 hours.

Chemistry 3a. General Chemistry: Laboratory and lectures with recitations. Prerequisite, one entrance credit in chemistry. Three lectures and one laboratory period of three hours. Deposit required. Mr. Monroe. 4 hours.

Chemistry 4. Qualitative Analysis: Analysis of unknowns. Laboratory and lectures. Prerequisite, Chemistry 1 and 2, or 2 taken with 4. Deposit required. Mr. Monroe. 4 hours.

Chemistry 5. Quantitative Analysis: Volumetric and gravimetric estimations. Lectures and laboratory. Prerequisite, Chemistry 4. Deposit required. Professor Williams. 4 hours.

Chemistry 51a. Electro-Chemistry: This course takes up the elements of physical chemistry. Theory of electrolytic dissociation, migration of ions, conductivity of solutions, electromotive force, electrolysis, and some of the applications of electro-chemistry. Prerequisite, Chemistry 4, Physics 2, and Mathematics 17. Lectures and recitations and one laboratory period of three hours. Deposit required. Professor Williams. 4 hours.

Chemistry 61a. Household Chemistry: This course is for women only. Professor DeBarr. 2 hours.

Chemistry 62b. Household Chemistry: A continuation of Chemistry 61. Professor DeBarr. 2 hours.

For Undergraduates and Graduates

Chemistry 101a. Advanced Qualitative Chemistry: Continuation of Chemistry 4. Deposit required. Mr. Monroe. 4 hours.

Chemistry 102b. Advanced Quantitative Analysis: Contin-

uation of Chemistry 5. Deposit required. Professor Williams. 4 hours.

Chemistry 103a. Inorganic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4. Deposit required. Assistant Professor Porter. 2 hours.

Chemistry 104a. Assaying: This course deals with the estimation of iron, lead, copper, silver, zinc, etc., by the wet way, and of gold and silver by the use of fluxes and other reagents. Prerequisite, Chemistry 5. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 105b. Water Analysis: A study of sanitary, sewage, and mineral waters. Prerequisite, Chemistry 5. Deposit required. Professor DeBarr. 4 hours.

Chemistry 106b. Iron, Steel, and Coal Analysis: A study of iron, steel, and coal used in commerce and for domestic purposes. Prerequisite, Chemistry 5. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 107a. Applied Quantitative Chemistry: This course deals with gypsum and other mineral products of Oklahoma. Lectures and recitations with laboratory. Prerequisite, Chemistry 5. Deposit required. Assistant Professor Porter. 5 hours.

Chemistry 108b. Applied Quantitative Chemistry: Prerequisite, Chemistry 5. Deposit required. Assistant Professor Porter. 5 hours.

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisite, Chemistry 5. Professor DeBarr. 4 hours.

Chemistry 122b. Organic Analysis: Analysis of alkaloids and organic acids. Examination of fat and oils. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 4 hours.

Chemistry 123b. Organic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4, 121, and German 2. Deposit required. Assistant Professor Porter. 2 hours.

Chemistry 124b. Physiological Chemistry: Physiological analysis. Lectures and laboratory. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 5 hours.

Chemistry 125b. Toxicology: A study of poisons. Lectures and laboratory. This course embraces a study of the symptoms, post-mortem appearances, antidotes attendant upon poisoning, and the recovery of the poisons from the various organs of the body. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 2 hours.

Chemistry 126. Chemistry and Composition of Food Products: A study of food-stuffs and their adulteration. Lectures, recitations, and laboratory. Prerequisite, Chemistry 121. A student

may take this course more than once and receive credit each time, provided the work is not duplicated. Deposit required. 5 hours.

First semester. Professor DeBarr.

Second semester. Assistant Professor Porter.

Chemistry 151a. Elementary Physical Chemistry: Lectures and recitations. This course deals with such topics as the gas laws, kinetic theory, phase rule, theory of electrolytic dissociation, etc. This course should be taken with or followed by Chemistry 152. Prerequisite, Chemistry 4, 5, and one year of college physics. Walker's Introduction to Physical Chemistry. Professor Williams. 4 hours.

Chemistry 152. Elementary Physico-Chemical Measurements: A laboratory course that must be taken with or after Chemistry 51. Molecular weight determinations by vapor density, freezing and boiling point methods, study of solutions, solubility, conductivity, transport numbers, etc. Deposit required. Professor Williams. 4 hours.

Chemistry 153. Journal Course: Students in this course are required to read certain assignments in the current chemical journals, to make reports covering certain phases of present day chemical research, and write a two thousand word report on some live chemical topic. Open to students of chemistry with junior or higher standing. Professor DeBarr and Professor Williams. 2 hours.

CLASSICAL ARCHAEOLOGY

Professor Paxton

Primarily for Undergraduates

Classical Archaeology 1, 3, and 4 may be counted as major work in Greek, and must be taken by those majoring in that subject.

Classical Archaeology 1a. The Private Life of the Greeks: Informal lectures and study of text-book on such topics as the family and clan, the name, marriage, marriage ceremonies, religion, childhood, education, slavery, classes in society, food, theatrical and other amusements, will be given and assigned. The course will be illustrated by numerous photographs and lantern slides. Monthly written reports, based on outside reading, are required. No knowledge of Greek is necessary. 2 hours.

Classical Archaeology 2b. The Private Life of the Romans: This course is similar to Classical Archaeology 1. The two courses are intended to be supplementary, but each is complete in itself. No knowledge of Latin is necessary. 2 hours.

Classical Archaeology 3a. Mythology of the Greeks and Romans: Fairbanks's Mythology of Greece and Rome will be used as a nucleus, and required readings in Gayley's Classical Myths in Eng-

lish Literature, Frazer's The Golden Bough, Lang's Myth, Ritual, and Religion, or similar works, will be assigned. Four or five informal lectures on art and mythology will be given, and the course will be freely illustrated by the use of the lantern and photographs. 4 hours.

Classical Archaeology 4b. Greek Sculpture: A course in the history, principles, and development of Greek sculpture. Tarbell's History of Greek Art must be in the hands of each member of the class, but the instruction will consist largely of formal and informal lectures, illustrated by photographs and the lantern. Required readings in Murray's The Sculptures of the Parthenon, Furtwaengler's Masterpieces of Greek Sculpture, Waldstein's Essays on the Art of Phidias. 4 hours.

DOMESTIC ART

Miss Peterson

Not more than twelve hours in domestic art may be credited as free electives toward a bachelor of arts degree.

Art 20. Free Hand Drawing: Fundamental principles underlying art expression; sketching from objects, casts, etc., with pencil and charcoal; pen and ink sketching, free-hand perspective; the purpose of this course is to give students some basis for the appreciation of form and color. Designed primarily for Arts and Sciences students. Not open to students who offer drawing for admission. Six periods per week. 2 hours.

Art 21. Theory of Aesthetic Expression: A study of line, spaces, light-and-dark, proportion, and color, and the principles underlying the pleasing arrangement of these elements with reference to decorative art. 2 hours.

Art 22b. Textiles: A study of the different materials used in costume and in home decoration to determine the important utilitarian and artistic qualities that affect the particular use of each. This course should also include a brief study of the manufacture and identification of the different materials. 2 hours.

Art 23a. Home Architecture: The evolution of the house; homes of primitive people; situation, surrounding, and construction of the house; skeleton plans; general study of the home from the artistic point of view. Prerequisite, one admission unit in drawing or Art 20. 2 hours.

Art 24b. Elementary Design: A course including a discussion of and studio practice in the application of the principles of design in relation to home arts. Prerequisite, Art 21. 2 hours.

Art 25a. Costume Design: This course considers costume design from the standpoint of the controlling factors; principles of design

and color, personality of the individual, purpose, and materials. Prerequisite, Art 21. (Art 22 recommended). 2 hours.

Art 26b. Costume Design: Continuation of Art 25, as applied particularly to millinery, children's clothes, and underwear. Prerequisite, Art 25. 2 hours.

Art 27a. Home Decoration: Application of æsthetic principles to home decoration; special consideration of walls, floors, and windows. Prerequisite, Art 21. (Art 25 recommended). 2 hours.

Art 28b. Home Decoration: Continuation of Art 27. Special consideration of selection and arrangement of furniture, pictures, plants, cut flowers, silverware, dishes, table linen, and table decoration. Prerequisite, Art 27. 2 hours.

ECONOMICS

Professor Dowd, Assistant Professor Adams

Economics 1 and 2 may not be counted as major work.

History 54. (Economic History of England), Botany 5 (General Forestry), Botany 6 (Industrial Botany), and Geology 3 (Economic Mineralogy and Geology) may count as major credit in this department.

Primarily for Undergraduates

Economics 1a. Elementary Economics: A treatment of the fundamental principles of the science. Seager's Principles of Economics. Assistant Professor Adams. 4 hours.

Economics 3b. Economic History of the United States: A study of the main economic problems that have confronted our country, their relation to the distribution of population, to social conditions and politics. (This course is given in alternate years. Given in 1916-17). Assistant Professor Adams. 2 hours.

Economics 4a. Money and Banking: The first part of this course will be taken up with a study of the theories and principles of money; the second part will consist of a study of the principles of banking used in the United States with particular reference to the history and operation of the new national bank act. The work will consist of lectures, assignments and recitations, and will be made as practical as possible. Assistant Professor Adams. 4 hours.

Economics 5b. Public Finance: A study of the principles of public expenditure, public revenue, public indebtedness, and financial administration. A part of this work will consist of practical research and investigation on the part of each student. Plehn's Public Finance will be followed as an outline of the course, but the major part of the

class-room work will consist of lectures and assigned readings. Assistant Professor Adams. 4 hours.

Economics 6b. Labor Problems: The conflicts between employers and wage-earners—trade unionism, arbitration, strikes, lockouts, boycotts, and sabotage—will be treated from the point of view of the public, the employer, and the laborer. Labor legislation for the protection of the health and morals of the workers will be studied as well as woman and child labor legislation. Cooperation, profit sharing, and other methods of increasing the efficiency and welfare of wage-earners will be taken up. The work will consist of lectures, assigned readings, and class discussions. Each student will be assigned a subject for special study. Assistant Professor Adams. 4 hours.

Economics 7a. Economic Geography: A general survey of the natural resources, industries, and commerce of the leading nations, with special reference to the domestic and foreign trade of the United States. Smith's Industrial and Commercial Geography, supplemented by the publications of the Department of Commerce and other collateral reading. (This course is given in alternate years. Given in 1916-1917.) Assistant Professor Adams. 2 hours.

Economics 8a. Business Administration: A study of legal forms, credit instruments, funding operations, accounting, and executive duties. Professor Dowd. 2 hours.

Economics 9b. Business Administration: A continuation of Economics 8. Supervision and auditing in connection with passenger transportation; light and power companies; insurance; jobbing; the commission business; brokerage; importing and exporting. Professor Dowd. 2 hours.

For Undergraduates and Graduates

Economics 100a. Industrial Combinations: The history and the causes of the development of industrial organizations and combinations in the United States; their relation to the public, the investor, and the wage-earner. A thorough examination will be made of the problems and difficulties of governmental regulation of industrial organizations. Each student will be assigned a special problem for investigation and report. The class work will consist of class discussions, lectures, and assigned readings. The course will be based on Haney's Business Organization and Combination. Assistant Professor Adams. 4 hours.

Economics 101b. Transportation: A study of the most important economic phases of the railway and water transportation problems. Lectures, readings, and reports. (This course is given in alternate years. Given in 1915-16.) Assistant Professor Adams. 2 hours.

Economics 102b. Insurance: A study of the fundamental prob-

lems of all kinds of insurance, with a detailed study of life and social insurance. This course is thoroughly practical, and is intended to prepare the student for insurance work. Assistant Professor Adams. 2 hours.

Economics 103b. Economic and Social Statistics: The sources and reliability of statistical data; special reference will be made to the statistics of present economic and social problems. Practice will be given in handling statistical data; the methods of distinguishing true from false inferences. This course is aimed to help either the student who wishes to do research work in the future, or the one who wishes to engage in practical business after graduation. Assistant Professor Adams. 2 hours.

Economics 104a. Rural Economics: This course deals with the problems of increasing the efficiency of agriculture both from the point of view of the individual farmer and the nation as a whole. The problems of farm management, tenancy, rural credit, co-operative buying and selling, transportation and insurance will be taken up Assistant Professor Adams. 2 hours

Primarily for Graduates

Economics 200a. Seminary for Research: This course is aimed to develop original investigation. Open to graduate and major students. Professor Dowd and Assistant Professor Adams. 1 to 3 hours.

Economics 201b. Seminary for Research: A continuation of Economics 200. Professor Dowd and Assistant Professor Adams. 1 to 3 hours.

EDUCATION

Professor Phelan, Professor Parsons, Professor Schmidt

Philosophy 1 is a prerequisite to all courses in education, and should be elected in the sophomore year.

Philosophy 1 and Education 2 may not be counted as major work.

With the consent of the department the courses in methods of teaching high school subjects may be counted to the amount of not more than four hours as major and minor work in education.

Some knowledge of logic, ethics, sociology, and biology is desirable for students doing regular work in education.

Primarily for Undergraduates

Philosophy 1a. General Psychology: Prerequisite for all courses in education. See Philosophy. Professor Phelan. 4 hours.

Education 2b. Educational Psychology: A study of the elements and principles of the learning process; the fundamental instincts

and capacities; the organization of experience as habit perception, imagination, memory, association, correlation of studies, transfer of training, attention and interest, analysis, reasoning, cultivation of emotions, motor expression, and motor training. Collateral reading, lectures, recitations, and reports. This course and Philosophy 1 satisfy the requirements of Group III. Colvin's Learning Process. Professor Phelan. 4 hours.

Education 4a. History of Education, Ancient and Mediaeval: A general survey of ancient and mediaeval educational theories, practices, and institutions, with special reference to their bearing upon the interpretation and solution of the educational problems of today. Lectures, readings, and discussions. Graves's History of Education. Professor Schmidt. 2 hours.

Education 5b. History of Education, Modern: A careful survey of the development of educational institutions and practices from the eighteenth century to the present. Special attention is given to the genesis, evolution, and present status of education in the United States. Lectures, readings, and discussions. Graves's History of Education. Professor Schmidt. 2 hours.

For Undergraduates and Graduates
Division A

Education 101b. Principles of Education: A course in the philosophy of education. The aims, ideals, and basis of effective teaching will be examined in the light of biology, psychology, and sociology. The school will be studied as a social institution, with special regard to the ethics of democracy, and the institutions that educate. The nature of the curriculum will be determined with reference to the doctrine of formal discipline, and the elemental educative values. The relation of psychology to teaching will be shown in the problems of instinct, interest, habit, memory, perception, and inference. Collateral reading, lectures, recitations, and thesis. Ruediger's Principles of Education. Professor Phelan. 2 hours.

Education 102a. The High School Program of Studies: This course deals with the organization of high school curricula as related to social and educational needs. Among the topics receiving special attention are: the historical development of the program of studies; evaluation and criticism of existing curricula; present economic, social, civic moral, and cultural demands upon the program of studies; reforms now under way; actual community analysis; and principles upon which reconstruction must be based. Lectures, readings, and reports. Professor Parsons, Professor Schmidt. 2 hours.

Education 103b. High School Administration: This course

deals with the theoretical and practical aspects of the high school as a social institution. Special attention will be given to such topics as relation to elementary schools, colleges, and to life; efficient organization and scientific management; and social administration. Lectures, readings, and discussions. Professor Parsons, Professor Schmidt. 2 hours.

Education 104b. Child Study: This course studies the history, sources, aims, and methods of child study; the problems of personality, interest, and habit building; and the states of development of childhood and adolescence, with special attention to heredity, the instincts, and motor, social, moral, and religious development. Professor Phelan. 4 hours.

Education 105a. Experimental Education: This course considers the motor, intellectual, and emotional development of childhood and youth. Problems of growth, play, fatigue, individual and sex differences are studied. Mental and social measurements are investigated, consisting of physical, motor, and sensory tests, and experiments in perception, attention, association, suggestion, imagination, and memory, and paychology and pedagogy of reading, writing and arithmetic. Lectures, recitations, readings, and laboratory. Rusk's Introduction to Experimental Education. Professor Phelan. 4 hours.

Education 106a. Elementary School Methods: A course in grammar grade methods for superintendents and principals; special emphasis given to the child's process of learning and the method of the recitation. The aim is to familiarize the student with the correlation of the subject matter of the school curriculum, and the principles involved in the construction of a course of study. Discussion on the best methods of teaching arithmetic, language, history, geography, and science will be paralleled by observation work. Lectures, required readings, writing of lesson plans, and text-book study. Professor Schmidt. 4 hours.

Education 107a. Educational Classics: An advanced course in the history of education. From year to year it will consist of a critical study of the more important writings of the great educators of special periods. Lectures, readings, reports, and a thesis. Professor Parsons. 2 hours.

Education 108b. Secondary School Methods: A study of the problems of the school room for the high school teacher, principal, or superintendent. This course will consider the principles and practice of classroom management, including such problems, as the prevention of waste of time and energy, discipline, methods, marking, records, reports, tests, and promotions; the general principles of physical and mental hygiene, a study of the hygienic conditions and surroundings

which favor or retard development; and a comparison of the school laws of Oklahoma with those of other states. Lectures, recitations readings, and reports. Professor Schmidt. 4 hours.

Education 109a. Comparative School Systems: This course is designed to present the essential features of the school systems of the United States, England, Germany, and France; to compare these systems with each other; and to judge of the efficiency of each in the light of its respective educational aims and national ideals. Among the topics treated are organization, supervision, curriculum, methods of teaching, continuation schools, technical schools, universities, etc. Lectures, prescribed readings, and reports. Professor Schmidt. 2 hours.

Education 110b. Principles of Moral Education: An examination of the nature of character development, and the application of the principles thus derived to the problems of character building confronting the teacher and parent. A study of moral values and the methods of moral instruction and training in the schools. Lectures, readings, discussions, and a thesis. Holmes, Principles of Character Making. Professor Phelan. 2 hours.

Education 111a. Social Phases of Education: A consideration of education as a social process. The place and function of the school as a social factor in its relation to the home, the state, the church, trade, and amusements. Among the topics treated are: the social extension of the school; school and the business world; parental schools; the juvenile court; self-governing clubs; the boy problem; education and crime; industrial education; agricultural education; athletics; course of study; six-year high school; social study period and recitation; and high school fraternities. Lectures, readings, reports, and thesis. Professor Phelan. 2 hours.

Education 112a. City School Administration: This course deals with the organization, administration and supervision of city school systems. Special attention will be given to such topics as: the respective functions of school boards, superintendents, principals, and teachers; programs and courses of study, text books, organization for efficiency; scientific supervision; the classification, grading, and promotion of pupils; and the training, selection, and promotion of teachers. Lectures, reading, and reports. Professor Schmidt. 2 hours.

Education 113. Educational Measurement: A survey of experimental and statistical investigations of school problems, comprising the Courtis tests in reading, writing, and arithmetic, Ayres and Thorndike tests in handwriting, the Hillegas tests in compositions and the Wallin and Pearson tests in spelling. This is an advanced course. Prerequisites, Philosophy 1, Education 2, and Education 105.

This is a correspondence course in which students qualified by

previous training will be assigned problems for experimental investigation in the public schools of the state. Professor Phelan. 2 hours.

Education 114b. Psychology of Retardation and Mental Deficiency: A clinical study of mentally deficient children with opportunity for observation and examination in city schools and state asylum for the insane. Lectures deal with the causes, frequency, methods of examination, diagnosis, and provisions for training in school. Professor Phelan. 2 hours.

Education 115b. Industrial Education: The course involves a discussion of the history and present status of industrial education in the United States and in European countries. This will be followed by a survey of the needs and facilities for industrial education in this state. Each student will be required to submit a constructive program for the state. Lectures, readings, and reports. Professor Schmidt. 2 hours.

Education 116a. Vocational Guidance: The course includes a survey of the recent rapid development of the various organizations, within and outside of the schools, for securing a more rational adjustment between education and early vocational experiences. Such topics as guidance, placement, employment supervision, vocational analysis, cumulative school records, vocational surveys, and vocation bureaus will be discussed. Special attention will be given to the relation of industrial education to vocational guidance. Professor Phelan. 2 hours.

Education 117b. School Hygiene: The work of this course considers the physical welfare of the child in its relation to its moral and intellectural development. It involves the study of school legislation relative to school hygiene, heating, lighting, and ventilating of school rooms, physical exercise, medical inspection, nature of communicable diseases, detection and treatment of the defects of the senses, laws of fatigue, hygienic programs, etc. Lectures, selected readings, and reports. Professor Phelan. 2 hours.

Education 118b. Statistical Method: The course will deal with the theory and practices of the statistical method as applied to the collection. analysis, and interpretation of educational data. The leading educational problems which require statistical treatment will be discussed. Typical statistical investigation in the field of education will be examined. Considerable practice will be given in the solution of problems from original data. Students will be required to make actual surveys of educational conditions in neighboring school systems. Lectures, reports and laboratory work. Professor Schmidt, 2 hours.

Education 119a. Rural Education: Designed especially for county

superintendents, rural school supervisors, traveling special teachers, and principals of larger country schools. The purpose is to develop a conception of the possibilities of rural school supervision. Professor Schmidt. 2 hours.

Division B

Education 129a. Practice Teaching: Juniors and seniors who have met certain specific requirements may teach in the Norman high school under the supervision of the department. The whole group of practice teachers will meet the supervisor occasionally for a discussion of general principles and problems. Frequent individual conferences will be provided. Students desiring to elect this work should make application during the preceding semester. Professor Schmidt. 2 hours.

Education 130b. Practice Teaching: A continuation of Education 129. Professor Schmidt. 2 hours.

The following courses in special methods of teaching are described in full under the respective departments.

Education 131b. Teacher's Course in English: Intended primarily for high school teachers of English. Prerequisite, English 1 and 2. See English. Assistant Professor Church. 2 hours.

Education 132b. Teacher's Course in Latin: Methods of teaching Latin; more difficult portions of third and fourth year Latin translated; syntax. See Latin. Professor Sturgis. 2 hours.

Education 133b. Teacher's Course in Mathematics: Attention is given chiefly to the organization and methods of presentation of algebra and geometry. See Mathematics. Dr. Gossard. 2 hours.

Education 134b. Teacher's Course in French: Methods of teaching French, analysis of high school texts. See French. Professor Dora. 2 hours.

Education 135b. Teacher's Course in German: Study and discussion of methods of teaching German in secondary schools. See German. Professor House. 2 hours.

Education 136a. Teacher's Course in Botany: For teachers of botany in high schools. See Botany. Professor VanVleet. 2 hours.

Education 137b. Teacher's Course in Zoology: Course designed for teachers of nature study in the public schools and zoology in the high schools. See Zoology. Professor Allee. 2 hours.

Education 138b. Teacher's Course in Public Speaking: Investigation of the methods of teaching public speaking in the high schools. See Public Speaking. Assistant Professor Tanner. 2 hours.

Education 139a. Teacher's Course in Music: Course for

supervisors of music. See Music. School of Fine Arts. Associate Professor Dungan. 2 hours.

Education 140b. Teacher's Course in Music: See Music, School of Fine Arts. Associate Professor Dungan. 2 hours.

Education 141a. Teacher's Course in Physical Training for Men: Instruction in methods of teaching gymnastics and athletics. See Physical Training. Professor Soutar and Mr. Owen. 2 hours.

Education 142b. Teacher's Course in Physical Training for Men: A continuation of Education 141. See Physical Training. Professor Soutar and Mr. Owen. 2 hours.

Education 143a. Teacher's Course in Physical Training for Women: Instruction in methods of teaching gymnastics and athletics. See Physical Training. Miss Revell. 2 hours.

Education 144b. Teacher's Course in Physical Training for Women: A continuation of Education 143. See Physical Training. Miss Revell. 2 hours.

Primarily for Graduates

Education 201a. Philosophy of Education: The course in advanced educational theory follows MacVannel's outline in the Philosophy of Education, and embraces such topics as the following: evolution and idealism as bases of education; personality and environment; the individual and society; moral institutions; democracy and education; the course of personal development; the school as a social institution; the course of study. (Given in alternate years. Given in 1916-17.) Professor Phelan. 1 or 2 hours.

Education 202a. Seminary in Educational Psychology: Introductory work in the psychology of education is presupposed. Opportunity for research is provided. Experimental investigation in the psychological laboratory and the neighboring public schools. (Given in alternate years. Given in 1915-16.) Professor Phelan. 1 or 2 hours.

Education 203b. Current Educational Problems: The topics discussed will necessarily vary somewhat from year to year. An attempt will be made to study carefully the questions that are in the focus of consciousness of the educational public. Reports and class discussions based on current educational magazines, recent monographs, and educational publications. This course should be of special interest to teachers and advanced students of educational and social problems. Professor Phelan. 1 or 2 hours.

Education 204a. Seminary in Educational Administration: A research course for advanced students who desire to investigate some of the larger problems in the sphere of the administration and supervision of public education. Professor Schmidt. 1 or 2 hours.

Education 205b. The Psychology and Pedagogy of Read-

ing: This course involves a careful survey of the following topics: the psychology of language, the various aspects of the reading process, experimental investigation of reading, actual conditions as found in public schools, and the hygiene of reading. Lectures, readings, reports, and individual observation and experimentation. The course is intended primarily for superintendents, principals, supervisors, and teachers of English. Professor Schmidt. 1 or 2 hours.

ENGLISH

Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Assistant Professor Church, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, Miss Aughinbaugh

The work in English falls into the three main divisions of composition, language, and literature.

The division in composition includes courses 1, 2, 5, 16, 17, 117, 118, 119. Courses in argumentation belong to this division. Some study of literature forms a part of most courses in composition.

The history of the language, Old English, and Middle English are included in courses 15, 100, 101, and 102.

The division in literature is sub-divided as follows: Courses 3, 4, 6, 7, 11, 13, 14, 108, 109, and 116 are concerned with movements and schools in English literature; while courses 106, 107, 110, 111, 112, 113, 114, 115, and 121 have to do with the more intensive study of individual writers, or groups of writers.

English 1 is a prerequisite to all other courses in English.

English 1 and 2 are required of all candidates for the bachelor's degree. English 3 and 4 serve as a general introduction to English literature, and are recommended both to students who wish to do only limited work in English literature, and to those who wish merely to fulfill the group requirements in English.

English 3 and 4 are required of all who select English as a major subject. Majors in English are advised to do work in each of the three divisions—composition, language, and literature.

English 1, 2, 3, and 4 may not be counted as major work.

Primarily for Undergraduates

English 1a. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence. Daily and fortnightly themes. Required of all candidates for the bachelor's degree. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it.

The course is given in ten sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Assistant Professor Church,

Assistant Professor Ramey, Mr. Morgan, Mr. Smith, and Miss Aughinbaugh. 4 hours.

English 2b. First Principles of English Composition: Long and short themes at stated intervals. A study of selected examples of nineteenth century prose. Lectures on the use of words. English 2 is a continuation of and presupposes English 1. Required of all candidates for the bachelor's degree.

The course is given in ten sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Assistant Professor Church, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, Miss Aughinbaugh. 4 hours.

English 3a. English Literature from Spenser to Pope, 1575-1745: A study in movements, with special attention to the secondary dramatists of the Elizabethan age, to the literature of the Restoration, and to the rise of classicism. Lectures and readings. Assistant Professor Church. 4 hours.

English 4b. English Literature from Johnson to William Morris, 1745-1896: A continuation of English 3, with special consideration of the decay of classicism, the romantic reaction, and the movements of nineteenth century literature. Lectures and readings. Assistant Professor Church. 4 hours.

English 5a. Argumentation: Practice in analysis, testing of evidence, and argumentative style, brief drawing and the gathering and presentation of material for debates and argumentative themes. Mr. Smith. 4 hours.

English 16a. Advanced Composition: This course affords practice in the various kinds of writing to students who have passed English 1 and 2. It is intended primarily for sophomores. 2 hours.

English 17b. Advanced Composition: A continuation of English 16. Open also to students who have not taken English 16 but who have had sufficient preparation to do the work of the course. Mr. Smith. 2 hours.

English 6a. The English Bible: The history of the English Bible. The New Testament from the point of view of literature. Lectures and assigned readings. Mr. Smith. 2 hours.

English 7b. The English Bible: A literary study of the poets and prophets of the Old Testament. Lectures and assigned readings. Mr. Smith. 2 hours.

English 11a. American Literature: A study of the literary productions of America, from the settlement of the colonies to the present time. Lectures and reports from assigned readings. Mr. Morgan. 4 hours.

English 13b. The Novel in the XIX Century: A study of

the chief novelists from Scott to Hardy, with some account of contemporary fiction, and a special study of realism. (Given in alternate years. Given in 1916-17.) Assistant Professor Church. 3 hours.

English 14a. The Novel in the XVIII Century: A study of the structure and history of the novel from its beginnings to Scott. Lectures and library work. (Given in alternate years. Given in 1916-17.) Assistant Professor Church. 3 hours.

English 15a. Historical English Grammar: An outline history of the development of the English language, with an examination of the nature and extent of the English vocabulary. This course will be of interest to students who have completed English 2, and to teachers of English. (Given in alternate years. Given in 1915-16.) Professor Hadsell. 4 hours.

For Undergraduates and Graduates

English 117a. Advanced Composition: A course in writing for students of junior, senior, or graduate rank. Particular attention is paid to the short story. Except in unusual cases the prerequisites are English 1, 2, 16, and 17. 2 hours.

English 118b. Advanced Composition: A continuation of English 117 with the same prerequisites. With the permission of the department this may be taken as an independent course. Mr. Morgan. 2 hours.

English 119a. Advanced Composition: A course in writing intended for engineers, and students in science, of junior, senior, or graduate rank. Particular attention is given to the gathering and preparation of material and to the writing and criticism of scientific papers. Mr. Morgan. 2 hours.

English 100a. Anglo-Saxon: An introduction to early English prose and poetry. Bright's Anglo-Saxon Reader. Professor Hadsell. 4 hours.

English 101b. Anglo-Saxon Poetry: Beowulf. The poem will be studied as a text, as a work of literature, and as a historical document. Prerequisite, English 100 or an equivalent. (Given in alternate years. Given in 1916-17.) Assistant Professor Ramey. 4 hours.

English 102b. Middle English: An introduction to the study of Middle English prose and poetry. Prerequisite, English 100 or equivalent. (Given in alternate years. Given in 1915-16.) Professor Hadsell. 4 hours.

English 106a. Shakespeare: The early comedies, the chronicle plays, the later comedies, the tragedies, and the romances are studied in succession. Eight plays are studied in class and eight or more, together with the life of Shakespeare, are assigned for library reading.

Students who have not had at least two years of English in college should secure permission of the instructor to enroll in this course. Lectures, readings, and reports. Professor Brewer. 4 hours.

English 107b. Shakespeare: In this course, a thorough study of several plays not studied in English 106 is made. This is a continuation of English 106, but it may be taken as an independent course. Lectures and library work. Professor Brewer. 4 hours.

English 108a. The Drama: A study of the rise and development of the drama from the earliest miracle plays to the close of the sixteenth century. A seminary with lectures and assigned readings in the dramatic authors of this period, exclusive of Shakespeare. Discussions and reports. Prerequisite, English 3 and 4, and one other semester of elective English, preferably English 106. Assistant Professor Ramey. 4 hours.

English 109b. The Drama: This is a continuation of English 108, but with the permission of the department it may be taken as an independent course. A study of the progress of the drama to the closing of the theatres in 1642. Attention is paid to the Restoration and the later drama. Seminary with lectures, discussions, and special reports. Prerequisite, English 3 and 4, and either 108, or 106 or 107. Assistant Professor Ramey. 4 hours.

English 116b. The Modern Drama: A study of the principal English and European dramatists of the end of the nineteenth and of the beginning of the present century. Lectures and assigned readings. Mr. Morgan. 2 hours.

English 110b. American Poetry: Studies of representative American poets. Special attention was given Lanier, Poe, Whitman, Emerson, and Lowell in 1914-15. Lectures and recitations. Mr. Morgan. 2 hours.

English 111a. Early Nineteenth Century Poetry: In this course a study is made of the romantic poets from Wordsworth to Keats. Particular attention is paid to the romantic movement in English poetry. Professor Brewer. 4 hours.

English 112b. Tennyson and Browning: A study of the poetry of Tennyson and Browning and Arnold, and of the period in which these three poets were the dominant figures. Lectures and assigned readings. (Given in alternate years. Given in 1916-17.) Professor Brewer. 4 hours.

English 113b. Later Victorian Poetry: A study of Rossetti, Swinburne, Morris, with some attention to the verse of the minor poets of the period. Lectures and assigned readings. (Given in alternate years. Given in 1915-16.) Professor Brewer. 2 hours.

English 114a. Nineteenth Century Essayists: Studies, in-

tended particularly for graduate students but open to seniors by permission of the department, in the essayists and journalists of the early part of the century. Special seminary studies are usually made in Lamb, Hazlitt, Leigh Hunt, and DeQuincey. Professor Brewer. 3 hours

English 115b. Nineteenth Century Essayists: A continuation of English 114 with special studies in Macaulay, Carlyle, Ruskin, and the prose writers of the latter part of the century. Professor Brewer. 3 hours.

English 121b. Chaucer: A study of Chaucer's English and of his work. Lectures, reports, and a thesis. Professor Hadsell. 4 hours.

English 125b. Literary Criticism: The principles and theories of literary criticism will be studied. Lectures, assigned readings, and reports. Prerequisite, English 3 and 4, and two elective courses. 4 hours.

Education 131b. Teacher's Course: Intended primarily for high school teachers of English, but open to juniors and seniors. The work will be practical, consisting chiefly of specimen studies of English and American classics, a review of the leading principles of composition, with practice in writing and correcting papers, and a survey of the methods of teaching English. Lectures, recitations, and exercises. Prerequisite, English 1 and 2, or their equivalent. Assistant Professor Church. 2 hours.

GEOLOGY

Professor Taylor, Professor Perrine, Mr. McCoy

Group requirements should be selected from Geology 1, 2, and 3.

Geology 1 and 2 are not accepted for major work.

If Geology 1 is elected, it should precede Geology 2 or 3.

Primarily for Undergraduates

Geology 1. Elementary Geology: A general introductory course. A study of the origin of the earth, its past and probable future; the chief rocks and minerals and the manner of their formation, destructive and reconstructive processes; crustal movements and mountain structures; vulcanism and metamorphism; a chronological study of the history of the earth, and of the development and evolution of life forms. A field excursion to the Arbuckle Mountains is included as part of the required work. Professor Perrine. 4 hours.

Geology 2. Physiography: A study of the development of land forms and of the agents which produce them. Special consideration is given to the life history and work of streams, to glaciers, to the ocean, volcanoes, etc. The course includes a brief consideration of

meteorology. A field trip to the Arbuckle Mountains is included as a part of the required work. Professor Taylor, Mr. McCoy. 4 hours.

Geology 3b. Elementary Mineralogy and Economic Geology: A megascopic determination of the more important rock-making minerals and ores. The occurrence, value, and methods of recovery of the valuable minerals. A brief discussion of the origin, mineral and chemical composition, and classification of rocks. This course is designed to meet the needs of high school teachers and others not planning to take their major work in geology. Desirable antecedents: Chemistry 1. Professor Taylor and Mr. McCoy. 4 hours.

Geology 4b. Map Interpretation: A critical study of topographic and geologic maps. Special attention is given to accurate interpretation of maps showing typical physiographic forms and geologic structures. Prerequisite, Geology 1 and 2. Professor Perrine or Mr. McCoy. 2 hours.

Geology 5a. Oklahoma Geology and Geography: The geology and geography of Oklahoma, with particular reference to the mineral resources, soils, water supply, climate, etc. (Given in alternate years. Given in 1916-17.) Professor Taylor. 4 hours.

Geology 6b. Economic Geography of North America: A study of the distribution and value of minerals, building stone, soils forests, water power, and crops of North America, and the consequent influence on industrial enterprises. This course will be of special value to teachers of geography as well as to students of geology. Prerequisite, a general knowledge of physiography. Desirable antecedents, Geology 1, 2, and Chemistry 1. Professor Taylor. 4 hours.

Mechanical Drawing 52b. Map Drawing: The preparation of base maps; lettering and printing. The preparation of geological maps in field and office. Open only to those who take their major work in geology. Professor Dwight. 2 hours.

For Undergraduates and Graduates

Geology 101a. Elementary Paleontology: A study of the principal classes of fossil invertebrate animals, from the biological standpoint, with respect to their form, structure, origin, range, distribution, and inter-relations. Lectures, supplemented by laboratory work with specimens. Prerequisite, Geology 1. Professor Perrine. 3 hours.

Geology 100b. Elementary Paleontology: A study of the development of life forms through the various geological periods from the stratigraphic standpoint, the aim being to familiarize the student with the characteristic fossils of each system. Lectures, supplemented by laboratory work in which each student makes specific deter-

mination of fossils. A field trip to the Arbuckle Mountains is required. Prerequisite, Geology 1. Professor Perrine. 3 hours.

Geology 102a. Crystallography and Mineralogy: A study of the laws of crystallization, and the classification of crystals. The physical properties, chemical composition, and mode of occurrence of minerals. Prerequisite, Chemistry 1. Deposit required. Mr. McCoy. 3 hours.

Geology 103b. Mineralogy: A continuation of Geology 102. Descriptive mineralogy and blowpipe analysis. Prerequisite, Geology 102. Deposit required. Mr. McCoy. 3 hours.

Geology 104b. Economic Geology: A study of ore deposits with respect to their origin, mode of occurrence, and value. Also a study of coal, salt, gypsum, etc., with particular reference to their occurrence and development in Oklahoma. Prerequisite, Geology 1, 3, or 102, and general chemistry. Desirable antecedents, Geology 100, 101, 105, 106. Professor Taylor. 4 hours.

Geology 105a. Continental Evolution: The principles of continental evolution based on the physical history of North America. Prerequisite, Geology 1, 2, and 100. Professor Perrine. 4 hours.

Geology 106b. Continental Evolution: A continuation of Geology 105; the nature of the work is the same. Prerequisite, Geology 105. Professor Perrine. 4 hours.

Geology 107a. Petroleum and Natural Gas: This course will attempt a thorough study of petroleum and natural gas, including, physical properties, composition, origin, distribution, mode of accumulation, structure of developed fields, methods of prospecting, mapping structure of oil fields, methods of drilling and casing wells, and the handling of the product after recovery. Prerequisites, Geology 1, 2, and 4. Desirable antecedents. Geology 3, 105, and 106, and Chemistry 1. Professor Taylor. 4 hours.

Geology 111b. Paleontology of Oklahoma: Designed to give those who desire to do geologic work a knowledge of the characteristic fossils found in the state. Open only to those who in the judgment of the instructor are capable of pursuing the work with profit. Prerequisite, Geology 100, 101, 105. (Given in alternate years. Given in 1916-17.) Professor Perrine. 2 hours.

Geology 112. Special Problems: Lectures and assigned readings on the chief problems of a general nature represented by North American geology and on certain technical questions, such as: the possible origin of the earth; the age and origin of the ocean basins; the possible causes of an ice age. Prerequisite, Geology 1 and 2. Professor Taylor. Credit Varies.

Geology 113. Field Work: Students who have had sufficient pre-

liminary training may pursue systematic field work under direct supervision of the department. For this suitable credit will be given. The work will be planned for each individual. Professor Taylor and Professor Perrine. Credit Varies.

Primarily for Graduates

Geology 200a. Petrography: The principles of optical mineralogy and the determination of minerals under the polarizing microscope. Prerequisite, Geology 102, Physics 2. Professor Taylor. 4 hours.

Geology 201b. Petrology: A study of the origin and classification of igneous rocks; differentiation of rock magmas; metamorphism. Prerequisite, Geology 200. Professor Taylor. 4 hours.

Geology 202b. Advanced Paleontology: A continuation of Geology 101. Laboratory, field work, and assigned readings. Prerequisite, Geology 1, and 100, or 101. Professor Perrine. Credit Varies.

Geology 203b. Economic Geology: Advanced course. Special attention will be given to problems of genesis of mineral deposits of economic value. Prerequisite, Geology 103, 104, 107, and 200. Desirable antecedents, Geology 200, 201, Chemistry 4. Professor Taylor. 4 hours.

GERMANIC LANGUAGES AND LITERATURES

Professor House, Associate Professor Voss, Dr. Steitz

German 1, 2, 3, and 4 may not be counted as major work.

Primarily for Undergraduates

German 1. Beginning German: Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Given in three sections in the first semester and in one section in the second semester. Professor House, Associate Professor Voss and Dr. Steitz. 4 hours.

German 2. Beginning German: This is a continuation of elementary German as given in German 1. Prerequisite, German 1, or equivalent. Given in three sections, in the second semester and in one section in the first semester. Professor House, Associate Professor Voss, and Dr. Steitz 4 hours.

German 3a. German Prose and Poetry: The reading of moderately difficult prose and poetry, selected from such authors as

Schiller, Freytag, and others; the study of word-formation, syntax, and drill in conversation accompanies each lesson. One hour a week is devoted to the study of prose composition. Prerequisite, German 1 and 2, or the equivalent. Given in three sections. Professor House, Associate Professor Voss and Dr. Steitz. 4 hours.

German 4b. German Prose and Poetry: Continuation of German 3 in second semester. Given in three sections. Professor House, Associate Professor Voss and Dr. Steitz. 4 hours.

German 5a. Classic German: Lessing and Schiller. Lessing's Emilia Galotti will be read in class, and the author's literary significance studied and discussed. Reports upon assigned readings will be received in class. One of Schiller's masterpieces will be studied in class, and an appreciative estimate of the author's position in German literature will be sought. Prerequisite, German 1, 2, 3, 4. (Given in alternate years. Given in 1915-16.) Professor House. 4 hours.

German 6b. Classic German: Goethe. A systematic study of the life and writings of the author. Two of the plays will be read in class. Lectures in German and reports in German upon assigned readings. (Given in alternate years. Given in 1915-16.) Professor House. 4 hours.

German 7a. Nineteenth Century Literature: A study of German literary movements in the century. Lectures based upon assigned readings will be given in German. Special emphasis will be put on the importance of the romantic school. Parts of Kleist, Grillparzer, and Otto Ludwig will be read and studied in class. Prerequisite, same as for German 5. (Given in alternate years. Given in 1916-17.) Professor House. 4 hours.

German 8b. Nineteenth Century Literature: The novel and drama of more recent time will be studied. Reports upon assigned outside readings. Lectures in German by the instructor. Representative authors, such as Sudermann, Hauptmann, Fulda, and others, will receive attention in class as well. The literary significance of the Wagnerian opera will be discussed. Prerequisite, same as for German 5. (Given in alternate years. Given in 1916-17.) Professor House. 4 hours.

German 9a. Scientific German: The aim of this course is to afford students of the sciences an acquaintance with technical scientific nomenclature and style. Reading of German scientific texts and articles in current technical periodicals will be required of students. Prerequisite, German 1 and 2. Wait's German Scientific Reader. Dr. Steitz. 2 hours.

German 10b. Scientific German: A continuation of German 9.

Reading of German scientific texts (Goeschen Sammlung) and articles in current technical periodicals. Dr. Steitz. 2 hours.

German 11a. German Conversation: A course intended primarily for students who wish to increase their facility in the use of the spoken language. Prerequisite, two years of German. Associate Professor Voss. 2 hours.

German 12b. German Conversation (Continued): The oral treatment by the student of graded themes, together with discussions of assigned topics. Prerequisite, German 11 or equivalent. Associate Professor Voss. 2 hours.

German 14b. Advanced Prose Composition: Translations, original compositions, letter writing. Special stress is laid on word order and proper use of idiomatic expressions. Osthaus and Bierman's Prose Composition. Prerequisite: German 1, 2, 3, 4, and either 5 and 6 or 7 and 8. Associate Professor Voss. 2 hours.

For Undergraduates and Graduates

German 112a. Historical Grammar of the German Language: Introductory lectures upon Germanic philology and a study of the historical changes in the development of modern German. Behagel's Die Deutsche Sprache. Prerequisite, German 1, 2, 3, 4, and either 5 and 6 or 7 and 8. (Given in alternate years. Given in 1915-16.) Associate Professor Voss. 2 hours.

German 113b. Historical Grammar of the German Language: A continuation of German 112. Associate Professor Voss. 2 hours.

German 114a. Middle High German: A study of the phonology and accidence of the Middle High German. Reading of selections from the Nibelungenlied and Gudrun. (Given in alternate years. Given in 1915-16.) Associate Professor Voss. 2 hours.

German 115b. Middle High German: A continuation of German 114. Associate Professor Voss. 2 hours.

German 116a. History of German Literature: From the earliest times to the classical period. A general survey of German literature in its relations to the literatures of other nations and its development in connection with the political history, religious movements, and social conditions of Germany. Lectures, reports, and collateral readings. Prerequisite, three years of German. (Given in alternate years. Given in 1916-17.) Associate Professor Voss. 2 hours.

German 117b. History of German Literature: A continuation of German 116. Associate Professor Voss. 2 hours.

German 118a. History of German Literature: From Lessing to the present time. Representative works will be read in English translations. Special emphasis will be laid upon the political, social,

religious, and artistic ideals of the classic and romantic schools. Prerequisite, the same as for German 116. (Given in alternate years. Given in 1915-16.) Associate Professor Voss. 4 hours.

German 119b. History of German Literature: A continuation of German 118. Associate Professor Voss. 2 hours.

German 120a. Gothic: An introductory course, especially for those who intend to study German or English historically, in the study of Gothic and its phonological relations to both earlier Indo-Germanic and later Germanic languages; the reading of selections from the Gospels and the Epistle to the Corinthians in Wulfila's translation of the Bible. Prerequisite, the same as for German 112. (Given in alternate years. Given in 1916-17.) Dr. Steitz. 2 hours.

German 121b. Gothic: A continuation of German 120. Dr. Steitz. 2 hours.

German 110a. Phonetics: A study of speech sounds in German and English. Prerequisite, three years of German. Associate Professor Voss. 2 hours.

German 111a. Goethe's "Faust": An analytical study, with some consideration of its sources and of other literary treatments of the same theme. Text, Calvin Thomas's edition. Prerequisite, three years of German. (Given in alternate years. Given in 1915-16.) Professor House. 2 hours.

German 123a. Old High German: A study of the phonology and accidence of the oldest German dialects; selections from Tatian and Otfrid's Evangelien buch as well as the shorter monuments of Old High German literature will be read. Prerequisite, three years of German (Given in alternate years. Given in 1915-16.) Dr. Steitz. 2 hours.

German 124b. Old High German: A continuation of German 123. Dr. Steitz. 2 hours.

Education 135b. Teacher's Course in German: Study and discussion of methods of teaching German in secondary schools, together with an analytic study of texts generally used in the first three years of German in high schools and normal schools. Review of grammar and practice in teaching. Prerequisite, three years' study of German. (Given in alternate years. Given in 1915-16.) Professor House. 2 hours.

GREEK

Professor Paxton

Greek 1, 2, and 3 are to be taken in the order named and are prerequisite for any of the succeeding courses except 10, 11, 12.

Greek 1, 2, 3, and 11 may not be counted as major work.

Classical Archaeology 1, 3, and 4 must be taken by those who

major in Greek, and may be counted as major work in the subject.

The Greek Grammar of Goodwin or Hadley and Allen should be in the hands of all students after the first term's work.

Primarily for Undergraduates

Greek 1a. Beginning Course: A careful drill in forms, accents, pronunciation, and elementary translation. Ball's Elements of Greek. 4 hours.

Greek 2b. Beginning Course (Continued): The text-book of Greek 1 will be completed and reviewed in part. Also the first book of the Anabasis. 4 hours.

Greek 3a. Xenophon: Anabasis; three more books read, and reviewed in part. Prose composition once a fortnight, with occasional oral drills. Reading in Grote. Some attention will be given to military antiquities. 4 hours.

Greek 4b. Lysias's Orations: Translation, some study of style, an elementary consideration of Greek legal procedure and of the Athenian Constitution. Text, Morgan. 4 hours.

Greek 5a. Homer's Iliad: Translation, scansion, a brief consideration of Homeric antiquities by references. Text, Seymour. 4 hours.

Greek 6b. Herodotus: The Persian Invasions of Greece. Plato's Dialogues may be substituted. 2 hours.

Greek 7a. Thucydides: The Sicilian Expedition. Readings in Grote. 2 hours.

Greek 10a. Greek Literature in English: A study of English translations of representative Greek masterpieces. Prerequisite, English 1 and 2. Text, lectures, and required readings. 2 hours.

Greek 11b. New Testament Greek: A study of the Gospel of St. John. Prerequisite, Greek 1. 2 hours.

Greek 12a. Modern Greek: The modern language will be studied in text-book, newspaper, and by conversation. No knowledge of classical Greek is necessary. 4 hours.

Classical Archaeology 1a. The Private Life of the Greeks: See Classical Archaeology 3. 4 hours.

Classical Archaeology 3a. Mythology of the Greeks and Romans: See Classical Archaeology 3. 4 hours.

For Undergraduates and Graduates

Greek 100b. Selections from the Greek Drama. 2 hours.

Greek 101a. Aristophanes: One play will be read somewhat critically, one rapidly, and a third in translation. 2 hours.

HISTORY

Professor Buchanan, Professor Gittinger, Associate Professor Floyd, Mr. Dale and Mr. Thoburn

History 9 and 10 may not be counted as major work.

Primarily for Undergraduates

Political Science I. (Institutional History:) History 1, heretofore listed under history as Institutional History has been transferred to the department of political science as Political Science 1. (See Political Science).

History 9a. Mediaeval Europe: A survey of the period from the beginning of the middle ages to the close of the fifteenth century. Associate Professor Floyd. 4 hours.

History 10b. Modern Europe: The political, social, and institutional history of Europe from the opening of the sixteenth century to the present. Associate Professor Floyd. 4 hours.

History 54b. Economic History of England: A study of the development of industry and commerce in England. Prerequisite, Economics 1. Professor Gittinger. 2 hours.

History 65a. History of Germany: A careful study of the politics, institutions, development of commerce and industry, and territorial expansion of the present German Empire will be made. Those students of the German language and literature who wish a general knowledge of German history will find this course especially helpful. (Given in alternate years. Given in 1916-17.) Associate Professor Floyd. 2 hours.

History 66b. History of France: The origin and history of the French people, their language, literature, constitutional development, religious wars, revolutions, and modern reforms will be treated in detail. This course is offered not only for special students of history but for those studying the Latin and French languages and literature as well. (Given in alternate years. Given in 1916-17.) Associate Professor Floyd. 2 hours.

For Undergradutes and Graduates

History 151a. Early and Mediaeval England: The first half of a general course in English history. Professor Gittinger. 4 hours.

History 152b. Modern England: The second half of a general course in English history. Professor Gittinger. 4 hours.

History 155a. Political History of the United States: A general survey from the revolutionary era to the presidency of Jackson. Lectures, text-book, and collateral reading. This course should

precede all advanced courses in American history. Professor Buchanan. 4 hours.

History 156b. Political History of the United States: A continuation of History 155, beginning with the presidency of Jackson and coming down to the present. Lectures, text-book, and collateral readings. Professor Buchanan. 4 hours.

History 157a. History of the American Colonies: The object of this course is to make a study of the development of the English political, social, and economic principles under American conditions. The work will be based on Thwaite's Colonies, Fisher's Colonial Era, and references to the accessible sources. (Given in alternate years. Given in 1915-16.) Mr. Dale. 4 hours.

History 159a. History of Greece: The oriental nations and Greece through the Persian invasions. The development and spread of Greek civilization to the Roman conquest. Professor Gittinger. 4 hours.

History 160b. History of Rome: A study of Roman origins and the development of Roman character. The growth of Roman power over the Mediterranean world and the foundation of the Empire. The first four centuries of the Christian era. Special attention will be given to the causes of the decay of ancient civilization. Professor Gittinger. 4 hours.

History 167a. The Culture and Civilization of the Renaissance: A course dealing with the rise of Italian humanism and the spread of the Renaissance throughout Europe generally. Special attention will be given to the literature, religion, society, and art of the period. (Given in alternate years. Given in 1916-17.) Prerequisite, History 9 and 10. Associate Professor Floyd. 2 hours.

History 168b. The Era of the Reformation: A survey of the causes, events and consequences of the religious revolutions of the sixteenth century with special attention to the influence of the German reformation on politics and society. Attention will be directed to the political, social, and economic aspects of the time as well as to the religious changes. (Given in alternate years. Given in 1915-16.) Prerequisite, History 9 and 10. Associate Professor Floyd. 2 hours.

History 101a. The French Revolution and Napoleonic Era: Mr. Dale. 4 hours.

History 102b. Recent History of Europe: A careful study of industrial conditions, existing constitutions, and political parties of Europe, including England, since the beginning of the nineteenth century. Lectures and readings. Associate Professor Floyd. 4 hours.

History 105a. Hebrew History: A study of the Hebrew

people from the beginnings to the time of Nehemiah. (Given in alternate years. Given in 1915-16.) Professor Gittinger. 2 hours.

History 106a. Territorial Expansion: This is an informal course requiring investigation into the geography of the United States and tracing the successive additions to our territory from the beginning of the government down to the present. Prerequisite, History 55 and 56. Professor Buchanan. 2 hours.

History 108a. The West: A study of the westward movement of population, and the political and economic aspects of the development of the different sections. Lectures and collateral reading. Mr. Dale. 4 hours.

History 109b. History of Oklahoma: This course begins with a brief survey of the history of the district now comprised in Oklahoma under its Spanish and French management, followed by a history of the Louisiana Purchase. The principal aim of the course, however, will be to trace the development of Oklahoma from the settlement of the five civilized tribes of Indians west of the Mississippi, the development of Oklahoma Territory, and the amalgamation of the two territories into one state. Mr. Dale. 4 hours.

History 110b. Civil War and Reconstruction: The history of the United States from 1860 to 1875. Professor Buchanan. 4 hours.

History 158b. Spain in North America: A general surey of the establishment and development of the Spanish colonies in North America with special attention to the territory now within the United States. Professor Gittinger. 4 hours.

Education 150b. Teacher's Course in History; For teachers of history in high school. Mr. Dale. 2 hours.

History 161b. History of Spain: A general course in Spanish history, from the beginning to modern times. Mr. Dale. 4 hours.

Primarily for Graduates

History 209a. Seminary in Southwestern History: A study of selected topics in the history of the Southwest. The student will be required to present the results of his investigations in a series of connected papers. Professor Gittinger. 2 hours.

History 210b. Seminary in Southwestern History: A continuation of the preceding seminary. Professor Gittinger. 2 hours.

History 211b. Seminary in Oklahoma History: A course affording opportunity for investigation in Oklahoma history. Students will be expected to investigate from the sources some topic in the History of Oklahoma and embody the result in written form. Mr. Dale. 2 hours.

History 212a. Seminary in American History: An intensive

study of selected topics in the political and institutional development of the United States. Professor Buchanan. 2 hours.

HYGIENE

Professor Ellison

Primarily for Undergraduates

Hygiene Ib. Principles of Hygiene and Sanitation: A course of lectures and demonstrations with assigned readings, taking up the subjects of ventilation, heating, food, digestion, disinfection, contagious diseases, water supplies, sewage, and sanitation, with methods of control and suppression of epidemics. Required of students of medicine. 4 hours.

JOURNALISM

Assistant Professor Herbert

Primarily for Undergraduates

Journalism Ia. Newspaper Writing: A course combining a study of the newspaper and its methods with actual practice in the simpler forms of news writing. Survey of the field of journalism; study of the newspaper field; newspaper organization; newspaper terminology; contents of newspapers; news elements; news values; news sources; news gathering; qualifications of a reporter; structure and style of the news story. 4 hours.

Journalism 2b. Newspaper Writing: Continuation of Journalism 1. Kinds of reporting: fire, accident, and disaster stories; obituaries; police, court, and political reporting; reports of speeches, meetings, conventions, and legislatures; railroad, market, and commercial reporting; sporting news; educational, religious, and civic news; social, musical, and dramatic reporting; interviewing; feature writing; human interest stories; the work of the correspondent. Prerequisite, Journalism 1. 4 hours.

Journalism 3a. Newspaper Editing: A course dealing with the presentation of news and the technique of newspaper practice. Rewrites and follow-up stories; newspaper office style; copy reading; mechanics of printing; technique of typesetting; proof reading; principles and practice of head writing; telegraph news gathering; telegraph news editing. Prerequisite, Journalism 1 and 2, or equivalent experience. 4 hours.

Journalism 4b. Newspaper Editing: Continuation of Journalism 3. Contents of newspapers; relative space and position of news; advertising and news; newspaper typography; make-up; the first page; the editorial page; feature material; lay-outs; illustrations; cuts and

matrices; morgue and library; newspaper editions; make-over; extras; emergency make-up; news contingencies; handling big stories; duties and problems of editorial executives; the Sunday edition; special editions. Prerequisite, Journalism 3. 4 hours.

Journalism 50a. Principles of Advertising: A study of the science of advertising from the standpoint of its relation to the commercial world; relation of advertising to the distribution and marketing of goods; psychological principles underlying advertising; study of the distinguishing characteristics of good advertising. 2 hours.

Journalism 51b. Practice of Advertising: Continuation of Journalism 50. Consideration of the different kinds of advertising matter; special forms of publicity; advertising media; methods of preparing, presenting, and testing the efficiency of advertisements of various kinds; special study of newspaper advertising; writing the advertisement; typographical display; preparation of the lay-out. Prerequisite, Journalism 50. 2 hours.

For Undergraduates and Graduates

Journalism 100a. News Feature Writing: A course dealing with the presentation of news in the form of feature stories. The feature story as a special form of news writing; its distinguishing characteristics: variety of subject matter, originality of treatment; feature stories not based directly on news events, for publication in Sunday newspapers and magazines. Prerequisite, Journalism 1 and 2, or equivalent experience. 2 hours.

Journalism 101b. Editorial Writing: A course combining a study of the component parts of the editorial page with practice in the various forms of editorial writing. Study of editorial pages in typical American newspapers; cartoons; humorous columns; newspaper verse; syndicated features; press comment; editorial paragraphs; editorial articles; practice in the interpretation of the news and in the molding of public opinion through the paragraph and the editorial. Prerequisite, Journalism 1 and 2, or equivalent experience. 2 hours.

Journalism 102a. History of Journalism: A course dealing with the historical development of journalism, with special emphasis on its evolution in America. Particular attention is given to the development of those tendencies which characterize modern journalism; America's great journalists; their influence upon the profession. Open only to juniors and seniors. (Given in alternate years; given in 1916-17.) 2 hours.

Journalism 104b. Comparative Journalism: A study of the various types of American newspapers and a comparison of American

newspaper standards with those of foreign countries. Intensive study of the elements which go to make up newspaper individuality—typographical appearance, stress upon certain classes of news, style of writing and presenting news and editorial matter. Open only to juniors and seniors. (Given in alternate years. Given in 1916-17.) 2 hours.

Journalism 105a. General Information and Reference: A course dealing with branches of knowledge directly related to the publication of news, including a study of miscellaneous exoteric facts essential to the educational equipment of newspaper workers, together with the means of discovering those facts through books of reference. Prerequisite, the consent of the instructor. (Given in alternate years. Given in 1915-16.) 2 hours.

Journalism 115b. Ethics and Laws of the Press: A course dealing with the social and legal restraints upon the press; social status of the newspaper; liberty of the press; ethical problems in news gathering, news presentation, editorial comity, and business management; ethics of advertising; laws relating to libel, questionable advertising, postal privileges and copyright. Prerequisite, the consent of the instructor. (Given in alternate years. Given in 1915-16.)

LATIN

Professor Sturgis and Mr. Heath

Latin 1, 3, and 4 are open to freshmen who have had Caesar. If other courses are desired out of their natural order as here given, the instructor in charge should be consulted.

Latin 1 and 2 may not be counted as major work.

Primarily for Undergraduates

Latin 1a. Cicero: Six orations of Cicero, with special attention to syntax. 4 hours.

Latin 2b. Vergil: Six books of the Aeneid. Some attention will be given to the subject of meter; but the chief aim will be idiomatic translation with a view to gaining an appreciation of the writer and an understanding of Vergil's place in literature. 4 hours.

Latin 3a. Latin Selections: Selections from representative Latin writers will be translated by the instructor. Members of the class will be asked to write out these translations in good English. The course will be found helpful to students of Latin who wish to get a survey of Latin literature as a whole, and to students of English composition who find themselves unable to write clear and coherent sentences. Open to those who have read Caesar. 2 hours.

Latin 4a. Selections from Ovid and Sallust: Gleason's A

Term of Ovid and Herbermann's Bellum Catilinae will be used. Study of verse and mythology, practice in reading at sight short extracts of poetry (elegiac) and prose. 4 hours.

Latin 5b. Livy: Melhuish, Books XXI, XXII, or selections from I, XXI, XXII. Readings in Mommsen. Elementary study of Roman military organizations. Studies in the style of Livy. 4 hours.

Latin 7a. Cicero's Essays: Two or more, with a study of sources and the author's philosophic style. Comparisons of modern essays on like subjects. 4 hours.

Latin 8b. Latin Literature in English: A study of masterpieces of Latin literature translated into English. Lectures, readings, and informal discussions. Prerequisite, English 1 and 2. 2 hours.

Latin 9b. Latin Writing: Composition work in this course is based on the orations of Cicero against Catiline. The course will be found helpful to students preparing to take the Rhodes Scholarship examination, to those intending to teach Latin, and to others who may desire a thorough drill in Latin syntax. Prerequisite, Latin 1. 2 hours.

For Undergraduates and Graduates

Latin 100b. Horace's Odes and Epodes: Smith. Study of meters. Reading of essays and monographs on Horace. The Satires and Epistles will occasionally be read instead of the Odes and Epodes. In that case a few of Juvenal's Satires will be read in addition. Papers on suggested subjects will be required. 4 hours.

Latin 101a. Plautus and Terence: Two plays will be read. Attention will be given to the history of Latin grammar and to the origin and development of the Latin drama. Prerequisite, Latin 4, 5, 7, and 100, or their equivalent. 4 hours.

Latin 102b. Tacitus: The Germania and Agricola, or extracts from the Annales, will be read. Attention will be given to disputed readings and to work in the history of Rome. Prerequisite, Latin 4, 5, 7, and 100, or their equivalent. 4 hours.

Latin 103a. Advanced Latin Writing: The first half of the semester will be devoted to a general review of Latin composition. The second half will be given to the study of the main differences between English and Latin, as regards idiom and style. 2 hours.

Latin 104b. Lucretius: Selected portions of the De Rerum Natura will be read. Special attention will be given to the philosophy of Epicurus. The student will also be required to do some work in textual criticism. Open only to those who have had five years of Latin. 4 hours.

Education 132b. Teacher's Course in Latin: Methods of

teaching Latin; more difficult portions of third and fourth year Latin translated; syntax. (See Education.) 2 hours.

MATHEMATICS

Professor Reaves, Associate Professor Duval, Dr. Gossard, Mr. Meacham

Mathematics 1 and 2 are required for admission to the College of Engineering and should preferably be taken in the high school. Students who select mathematics as one of their group electives are advised to take Mathematics 5 and 9, if they are prepared to do so; otherwise to take Mathematics 2 and 9.

Mathematics 1, 2, 5, 6, and 9 may not be counted as major work.

Primarily for Undergraduates

Mathematics 1b. Solid Geometry: A brief review of portions of plane geometry followed by the usual propositions leading to the mensuration of solids. Prerequisite, one year of plane geometry. Mr. Meacham. 2 hours.

Mathematics 2a. Algebra: A careful review of the fundamental principles followed by a study of exponents and radicals, theory of quadratics, graphs, systems of equations, complex numbers, ratio and proportion, progressions, logarithms, binomial theorem. Prerequisite, one year of algebra and one year of plane geometry. Associate Professor Duval. 4 hours.

Mathematics 5. College Algebra: Embracing the subjects of imaginaries, variables and limits, permutations and combinations, binomial theorem, series, undetermined coefficients, logarithms, determinants, and theory of equations. This course presupposes a minimum of one and one-half years in algebra. Six sections first semester and one section second semester. Professor Reaves, Associate Professor Duval, Dr. Gossard, Mr. Meacham. 4 hours.

Mathematics 6a. Trigonometry: This is a brief course intended primarily for engineering students, but open also to others. Prerequisite, Mathematics 2 or equivalent. Two sections. Dr. Gossard, Mr. Meacham. 2 hours.

Mathematics 9. Trigonometry: Derivation and use of formulas, solution of triangles, trigonometric equations and identities, graphs of functions, computations of logarithms, DeMoivre's theorem. Prerequisite, Mathematics 2 or 5. One section first semester and four sections second semester. Professor Reaves, Associate Professor Duval, Dr. Gossard, Mr. Meacham. 4 hours.

Mathematics 14. Analytic Geometry: Equations and their loci; transformation of coordinates; the straight line, circle, and other conic sections; general equation of the second degree; introduction to

solid geometry. Prerequisite, trigonometry. One section, first semester, and two sections, second semester. Prerequisite, Mathematics 6 or 9. Associate Professor Duval, Mr. Meacham. 4 hours.

For Undergraduates and Graduates

Mathematics 117. Calculus: Course in differential and integral calculus. Prerequisite, Mathematics 14. One section, first semester. Dr. Gossard. One section, second semester. Associate Professor Duval. 4 hours.

Mathematics 118. Calculus: A continuation of Mathematics 117 with numerous applications to practical problems. Prerequisite, Mathematics 117. One section first semester. Professor Reaves. One section second semester. Dr. Gossard. 4 hours.

Mathematics 122b. Differential Equations: Ordinary and partial differential equations with applications to geometry, physics, and mechanics. Prerequisite, Mathematics 117. (Given in alternate years. Given in 1916-17.) Associate Professor Duval. 3 hours.

Mathematics 125a. Determinants and Theory of Equations: Prerequisite, Mathematics 14. Associate Professor Duval. 3 hours.

Mathematics 126b. Projective Geometry: Projective forms and relations, the principle of duality, anharmonic properties, involution, conics, problems and constructions. Text, Cremona. Prerequisite, Mathematics 117. (Given in alternate years. Given in 1915-16). Professor Reaves. 4 hours.

Mathematics 131a. Advanced Calculus: A course based on Wilson's Advanced Calculus. Prerequisite, Mathematics 118. (Given in alternate years. Given in 1915-16.) Professor Reaves. 4 hours.

Mathematics 135b. Solid Analytic Geometry: Prerequisite, Mathematics 14. Associate Professor Duval. 2 hours.

Mathematics 136b. Modern Analytic Geometry: Homogeneous coordinates, anharmonic ratio, curves of the second order and second class, poles and polars, Pascal and Brianchon theorems. Prerequisite, Mathematics 117. (Given in alternate years. Given in 1915-16.) Professor Reaves. 3 hours.

Mathematics 137a. Theory of Functions of a Complex Variable; Prerequisite, Mathematics 131. (Given in alternate years. Given in 1916-17.) Dr. Gossard. 4 hours.

Mathematics 138b. Higher Algebra: Fundamental properties of polynomials; theory of linear dependence; linear transformations and combinations of matrices; invariants, bilinear forms. Prerequisite, Mathematics 117. Should also be preceeded by Mathematics 125 and 135, though these courses are not absolutely essential. Text, Bocher's Introduction to Higher Algebra. (Given in alternate years. Given in 1916-17). Associate Professor Duval. 4 hours.

Mathematics 141. Mathematical Seminary: The purpose of

this course is to encourage junior and senior students in general mathematical reading of a somewhat advanced nature. The subject matter will vary from year to year, but will include some such subjects as the following: theory of numbers, higher plane curves, differential geometry. At hours to be arranged, either semester. Professor Reaves. 2 hours.

Education 133b. The Teaching of Secondary Mathematics: A course which includes the study of methods of presenting algebra and geometry, especially the more difficult topics; the fundamental aims in the teaching of these subjects; and methods whereby the interest of the pupil in these subjects is stimulated. Open to those who have had experience in teaching algebra and geometry, and prospective teachers who have completed college algebra. Dr. Gossard. 2 hours.

PATHOLOGY

Professor Turley, Dr. Sorgatz

The work in this department is designed to meet four requirements: general culture, preparation for research, a more detailed knowledge of certain important organisms than is given in the biological courses, and a training in the essentials for the practice of medicine. The courses are open to all students of college rank on the approval of the instructor in charge.

Pathology 1 is required of all students of medicine.

Pathology may be combined with bacteriology for a major.

Primarily for Undergraduates

Pathology 1b. General Pathology: A study of the abnormal functioning of the various organs of the body, the conditions producing diseases, the efforts of the body to overcome diseases and regenerate diseased tissues, disturbances in development, circulatory disturbances, retrogressive processes, progressive processes, inflammation, and secondary diseases. This course is the basis of advanced special, clinical, and diagnostic pathology. Lectures, recitations, and demonstrations showing gross and microscopic lesions in the human tissues. Prerequisite, Histology 1. Texts, Ziegler, and Mallory and Wright. Four periods. Professor Turley.

For Undergraduates and Graduates

Pathology 101a or b. Special Pathology: A course of lectures and demonstrations with anatomical material illustrating the pathological processes of the several organs. Prerequisite, Bacteriology 1 and Pathology 1. 4 hours.

Pathology 102a. Research Pathology: The student will pursue a definite line of research on a subject of pathology

selected after consultation with the instructor in charge. This course is open to all students of the university who have the necessary prerequisites, and is designed especially for those who take major work in pathology. Laboratory, conferences, assigned readings, and reports. Deposit required. Prerequisite, Pathology 1, according to the nature of the subject chosen. 4 hours.

Pathology 103b. Research Pathology: A continuation of Pathology 102. Deposit required. 4 hours.

PHILOSOPHY AND PSYCHOLOGY

Professor Phelan, Professor Schmidt

Philosophy 1 is a prerequisite to all courses in psychology and education.

Philosophy 1 and Education 2 may not be counted as major work.

Primarily for Undergraduates

Philosophy 1a. General Psychology: This is a general introductory course aiming to give the student a survey of the main problems, principles, and methods of psychology, either as a part of a liberal education or as a preparation for professional study in education, medicine, or law. The following topics will be treated: sensation, attention, habits, association of ideas, perception, memory, imagination, conception, judgment, reasoning, instinct, feeling, emotion, volition, and personality. Lectures, recitations, assigned readings, reports, and experimental work. Pillsbury's Essentials of Psychology. Professor Phelan. 4 hours.

Education 2b. Educational Psychology: (See Education.) Professor Phelan. 4 hours.

Philosophy 3b. Logic: An introductory study of real and formal logic, including the principles of argumentation, proof, and inference. The course begins with induction, takes up deduction and fallacies, and closes with a brief account of the philosophical problems involved in science of logic. Open to students who have completed at least one year of university work. Professor Schmidt. 4 hours.

Philosophy 4a. Introduction to Philosophy: An outline study of the field of philosophical discussion, with an indication of its chief problems and methods of investigation. This course is open to students who have completed at least one year of university work. Fullerton's Introduction to Philosophy. Professor Phelan. 4 hours.

For Undergraduates and Graduates

Philosophy 101b. Experimental Psychology: Introductory course. Psychophysical methods, analysis of sensation, reaction, and study of the common senses. Lectures and work in the laboratory.

(Given in alternate years. Given in 1916-17). Professor Phelan. 4 hours.

Philosophy 102b. Experimental Psychology: Special senses; space perception and illusions; higher intellectual process. Lectures and work in the laboratory. (Given in alternate years. Given in 1915-16). Professor Phelan. 4 hours.

Philosophy 103a. Comparative Psychology: A description and interpretation of the instincts and intelligence of animals; a study of instinct habit formation and the learning process of animals; visual, auditory, chemical and kinaesthetic senses. Watson's Introduction to Comparative Psychology. Professor Phelan. 2 hours.

Philosophy 104a. Genetic Psychology: This course considers the general field of genetic psychology including origins, course and factors of mental development in the race and in the individual. Lectures, readings, reports, and a thesis. Professor Phelan. 2 hours.

Philosophy 105a. Abnormal Psychology: A general survey of the laws of abnormal mental phenomena. A study of such psychoses as throw light on the general and genetic problems of psychology. Disorders of sensation, memory association, emotion, and volition order of failure of mental functions; some statement of heredity. Lectures readings, and a thesis. (Given in alternate years. Given in 1915-16.) Professor Phelan. 2 hours.

Philosophy 106a. Social and Applied Psychology: An introductory study of the psychic factors and forces behind material and social progress. The application of psychology to business, medicine, theology, and law. Selected readings from Baldwin, McDougall, Wundt, Ross, etc. Lectures, reports, and thesis. (Given in alternate years. Given in 1916-17.) Professor Phelan. 2 hours.

Philosophy 107b. History of Psychology: A general survey of the development of psychology in ancient, medieval, and modern thought. Aristotle, St. Augustine, Aquinas, Descartes, Locke, Kant, Lotze, and Wundt, will be studied intensively as representatives of distinct periods. Dessoir's History of Psychology. (Given in alternate years. Given in 1915-16.) Professor Phelan. 2 hours.

Philosophy 108b. The Psychology of Religion: The more important phenomena of religion are studied from the psychological point of view—such as the development of religion in the individual, belief, conversion, revivals, prayer, mysticism, etc. Lectures, assigned reading, and original research by the students. Senior and junior elective course. (Given in alternate years. Given in 1916-17.) Professor Phelan. 2 hours.

Philosophy 109b. Aesthetics: Preliminary study of the history of æsthetic theories from the Greeks to the present. Analysis and psychology. Reconstructive study of the theory of art, including the

sense of beauty and the art impulse. Gordon's Aesthetics. Professor Phelan. 2 hours.

Philosophy 110a. History of Philosophy: A general survey of philosophic speculation from its beginnings among the Greeks to the present time. Special attention will be given to the Greek philosophy through Aristotle, and to the modern period from Descartes to Hegel. The characteristic features of each philosophical system, with its place and influence in the progress of human thought, will be shown. Collateral readings, lectures, recitations, and a thesis. Thilly's History of Philosophy. Professor Schmidt. 4 hours.

Philosophy 112a. Theoretical Ethics: Intended to aid in mastering the fundamental problems of life and character. First, a discussion of the nature and relations of ethics and an outline of the history of the chief ethical systems. Second, a critical study of the fundamental concepts of ethics with the aim of constructing a tenable theory of conduct. Seth's Ethical Principles. (Given in alternate years. Given in 1915-16.) Professor Phelan. 2 hours.

Philosophy 113a. Practical Ethics: The application of theoretical principles of conduct to practical problems of life. Special consideration of duties, rights, temperance, charities, moral pathology, penology, ethics of relief. Textbooks, lectures, prescribed reading, and theses. (Given in alternate years. Given in 1916-17.) Professor Phelan. 2 hours.

Philosophy 114b. Epistemology: A systematic course, both critical and constructive, in the philosophy of knowledge. All the important problems of epistemology are considered: knowledge as a mental process, the relation of experience and reason, phenomenalism and epistemological realism, agnosticism and scepticism. Lectures, papers, and discussions. (Given in alternate years. Given in 1915-16.) Professor Phelan. 2 hours.

Philosophy 115b. Metaphysics: An advanced course, dealing with the fundamental problems relating to the nature and connections of reality—the Soul, the World of Things, and the Absolute. The aim is to construct a consistent and tenable theory of reality. The two main present day tendencies in metaphysics will be considered at length, namely: 1. Absolute idealism in the writings of Bradley and Royce; 2. Radical empiricism in the writings of William James and his followers. (Given in alternate years. Given in 1916-17.) Professor Phelan. 2 hours.

Primarily for Graduates

Philosophy 201a. Seminary in Psychology: A critical study of some specific problem of psychology, such as the investigation of the emotions or advanced work in comparative psychology with labo-

ratory investigation on the psychology of learning. Professor Phelan. 1 or 2 hours.

Philosophy 202b. Problems in Philosophy: A seminary course of research in the historical and critical problems of philosophy. This course will introduce the problems of contemporary metaphysics. Professor Phelan. 1 or 2 hours.

PHYSICAL EDUCATION

Professor Soutar, Mr. Owen, Miss Revell

All students entering the university are required to take physical education 1 and 2 during the first year. This does not apply, however, to students who enter with at least one year's work of college rank, accepted in full by the university. For a sufficient reason, such as physical inability to do the required work, or self support (in special cases only) the faculty may excuse a student from complying with this requirement in whole or in part. While engaged in systematic participation in athletic sports under the direction of the athletic director or coach, students will be excused from the work in physical education.

Any of the courses in physical education may count as elective credit toward a degree in the College of Arts and Sciences.

The teachers' courses in physical education, namely, Physical Education 141, 142, 143, and 144 may not count toward the twenty fours in education required in the School of Education for a teacher's certificate, but may count as free electives toward a degree.

Courses for Men

Physical Education 1a: Consists of a definite "day's order" of exercises, supplemented by light apparatus work and indoor and outdoor games. Required of freshmen. 1 hour.

Physical Education 2b. A continuation of Physical Education 1. Required of freshmen. Mr. Soutar. 1 hour.

Physical Education 3a. Heavy Apparatus Work: Elective for sophomores in the College of Arts and Sciences, or for those students who are particularly adapted to the work; may be taken by special permission of the director. Mr. Soutar. 1 hour.

Physical Education 4b. A continuation of Physical Education 3. Mr. Soutar. 1 hour.

Physical Education 9a. Corrective and Medical Gymnastics: Open to students physically incapable of taking Physical Edu-

cation 1 and 2. Elective for all students in College of Arts and Sciences. Mr. Soutar. 1 hour.

Physical Education 10b. A continuation of Physical Education 9. Mr. Soutar. 1 hour.

Physical Education 7a. Athletics: Football, basketball, cross-country, gymnastics, and tennis. Elective for students who are physically competent. Mr. Owen, Mr. Soutar. 1 hour.

Physical Education 8b. A continuation of Physical Education 7. Basketball, gymnastics, tennis, baseball and track. Elective for students who are physically competent. Mr. Owen, Mr. Soutar. 1 hour.

Education 141a. Teacher's Course in Physical Education: Designed for the purpose of training teachers of athletics and gymnastics. Lectures and practice are given in football, basketball, apparatus work, and organization and management of gymnastic classes. Prerequisites, Physical Education 1 and 2 and two years of college work. Students who are particularly adapted to the work may enter the class by special permission of the director. Mr. Soutar. 4 hours.

Education 142b. A continuation of Physical Education 141. Takes up in addition baseball, track, and physical measurements, some corrective gymnastics, and playground organization and management. Mr. Soutar. 4 hours.

Courses for Women

Physical Education 51a. Consists of tactics, calisthenics, light apparatus work, games, and folk dances. Required of freshmen. Miss Revell. 1 hour.

Physical Education 52b. A continuation of Physical Education 51. Required of freshmen. Miss Revell. 1 hour.

Physical Education 53a. Tactics, calisthenics, heavy apparatus work, games, aesthetic dancing. Elective for students who have completed Physical Education 51 and 52. Miss Revell. 1 hour.

Physical Education 54b. A continuation of Physical Education 53. Miss Revell. 1 hour.

Physical Education 57a. Corrective and Medical Gymnastics: Open to students physically incapable of taking Physical Education 51 and 52. Elective. Miss Revell. 1 hour.

Physical Education 58b. A continuation of Physical Education 55. Miss Revell. 1 hour.

Physical Education 59a. Fencing: Elective. Open to students who have completed Physical Education 51 and 52, or by special permission of the director. Miss Revell. 1 hour.

Physical Education 60b. Folk Dancing: Elective. Open to students of both sexes. Miss Revell. No credit.

Education 143a. Teacher's Course in Physical Education:

Designed for the purpose of training teachers of athletics and gymnastics. Lectures are given with practice in tennis, hockey, basketball, gymnastic organization and management, games and dancing. Prerequisites, courses 52 and 53, and two years of college work. Students who are particularly adapted to the work may enter the class by special permission of the director. Miss Revell. 4 hours.

Education 144b. Teacher's Course in Physical Education: A continuation of course 143. Takes up in addition base-ball, track, physical measurements, some corrective gymnastics, and playground organization and management. Miss Revell and Mr. Soutar. 4 hours.

PHYSICS

Professor Haseman, Miss Maloy

The work of the department of physics is planned to meet the needs of four classes of students:

(1) Students who desire a general knowledge of phenomena and fundamental principles of physics.

Courses 1, 2, 61, and such other courses as students are prepared to enter are recommended.

(2) Students who desire in addition to a general knowledge a rigid treatment of those principles of physics which are essential to the engineering sciences.

Courses 51, 52 and such other courses as students are prepared to enter are recommended.

(3) Students who desire to select physics as a minor study.

Courses 1, 2, 65, 109, 141, and 142 are recommended.

(4) Students who desire to select physics as a major study.

Courses 51, 52, 65, 100, 101, 102, 103, 104, 105, 106, 107, 108, and 109 are recommended. Courses 1, 2, and 100 may be substituted for courses 51 and 52.

The department will in general recommend, as qualified to teach physics in a high school, only those students who have successfully completed the equivalent of the work recommended for the major or minor study and Education 146.

Primarily for Undergraduates

Courses 1, 2, and 61 are open to all students.

Courses 51 and 52 are open to students who have completed trigonometry.

Course 65 is open to students who have completed Physics 1 and 2, or 51 and 52.

Physics 1a. General Physics: Mechanics, sound, heat. Lect-

ures, recitations, laboratory, and assigned readings. A beginning course in college physics. 4 hours.

Physics 2b. General Physics: Electricity, magnetism, light. Lectures, recitations, laboratory, and assigned readings. A beginning course in college physics. 4 hours.

Physics 51a. Mechanics, Sound, Heat: Lectures, recitations, laboratory, and assigned readings. 5 hours.

Physics 52b. Electricity, Magnetism, Light: Lectures, recitations, laboratory, and assigned readings. 5 hours.

Physics 61a: Household Physics: A study of those phases of physics which enter into the daily household life. Special for women. 3 hours.

Physics 65b. Practical Photography: Lectures, assigned readings and laboratory practice. A brief study of the camera and its accessories. Exposing, developing, fixing, printing, enlarging, reducing, lantern slide work, etc. 2 hours.

For Undergraduates and Graduates

Courses 100 to 108, inclusive, are open to students who have completed courses 1, 2 or 51, 52 and Mathematics 117.

Courses 109, 141, and 142 are open to students who have completed courses 1, 2 or 51, 52, and Mathematics 14.

Physics 100a. Advanced Physics: Lectures and recitations. An introduction to advanced physics. The fundamental properties of matter with the theory of such principles as are essential to advanced work in physics. The theory of measurements, the calculation of mean and probable errors, graphical methods, the essentials to the solution of problems. Professor Haseman. 4 hours.

Physics 101a. Advanced Physics: A laboratory course including experiments on the accurate measurement of length, mass, and time; the measurement of acceleration, coefficient of friction, efficiency of a machine, moment of inertia, elastic constants, viscosity, surface tension, etc. Must be accompanied or preceded by Physics 100. Professor Haseman. 1 hour.

Physics 102b. Sound and Heat: Lectures and recitations. The theory of simple harmonic motion and wave motion in general with application to acoustical phenomena. A general discussion of fundamental heat phenomena followed by a study of the elementary principles of thermo-dynamics. Professor Haseman. 4 hours.

Physics 103b. Sound and Heat: A laboratory course including experiments on vibration frequency, interference of sound waves, law of vibrating bodies, coefficient of expansion, calorimetric measurements, vapor density, vapor pressure, mechanical equivalent of heat,

the two specific heats of gases, etc. Must be accompanied or preceded by Physics 102. Professor Haseman. 1 hour.

Physics 104a. Electricity and Magnetism: Lectures and recitations. The general theory of potential, lines and tubes of force, fields of force, and influence of media as applied to electrostatics and magnetism. A study of the electric current with the theory of electromagnetism and electromagnetic apparatus. Professor Haseman. 4 hours.

Physics 105a. Electricity and Magnetism: A laboratory course including experiments on the accurate measurement of current, electromotive force, resistance, capacity, induction, hysteresis loss, calibration of electrical instruments, etc. Must be accompanied or preceded by Physics 104. Professor Haseman. 1 hour.

Physics 106b. Light: Lectures and recitations. A discussion of geometrical optics, followed by a study of the wave theory with special reference to the phenomena of interference, diffraction, dispersion, absorption, double refraction, and polarization. Professor Haseman. 4 hours.

Physics 107b. Light: A laboratory course including experiments on refraction; interference with bi-prism, double mirror, grating and interferometer; spectrum analysis with spectroscope; polarization with polarimeter; etc. Must be accompanied or preceded by Physics 106. Professor Haseman. 1 hour.

Physics 108b. Electricity: Lectures and recitations. The theory of electric oscillations and waves and their applications to wireless telegraphy. Electric conduction in gases, and radioactivity with special reference to modern theories of the constitution of matter. Professor Haseman. 4 hours.

Physics 109. Advanced Laboratory: A laboratory course planned to give students an opportunity to do experiments not included in Physics 101, 103, 105, 107. Problems requiring special investigation will be assigned students who are prepared to do such work. Professor Haseman. Credit to be arranged.

Physics 141a. General Physics: Lectures, recitations and laboratory. A detailed study of the more important phenomena and fundamental principles of mechanics and molecular physics, 4 hours.

Physics 142b. General Physics: Lectures, recitations and laboratory. A detailed study of the more important phenomena and fundamental principles of electricity and light. 4 hours.

Education 146b. Teachers' Course in Physics: Lectures on the history of physics and the practical problems of a teacher of high school physics. The following problems will be discussed: The subject matter for class room and laboratory practice, the method of

presentation best suited to an elementary course, text books and library reference books, the selection and purchase of apparatus and general supplies, the care of apparatus, the arrangement and permanent equipment of the class room and laboratory, the work of the teacher, the work of the pupil, etc. Members of the class will review the essential principals of elementary physics and make written reports on assigned topics. Prerequisite, Physics 1 and 2, or 51 and 52. 2 hours.

PHYSIOLOGY

Professor Nice

Physiology 1 is not accepted for major work.

Physiology 1a. Elementary Physiology: A general course in physiology dealing with the various organs and tissues of the body. This course is planned especially for Arts and Sciences students who desire a general knowledge of the subject. Lectures, laboratory, demonstrations, and recitations. Deposit required. 4 hours.

Physiology 6a. General Physiology: A study of the functions of muscles, nerves, the central nervous system, and the special senses. Three lectures and two laboratory periods of three hours each per week; also eight special demonstrations of which the following are examples: motor localization in the cerebral cortex, the activity of a decerebrate pigeon and the activity of a spinal mammal. Required of medical students. Deposit required. 5 hours.

Physiology 7b. General Physiology: A study of the circulatory system, lymphatic system, body fluids and their regulation, digestive system, digestion, absorption, secretion, excretion, metabolism respiration, animal heat and its regulation. Three lectures and two laboratory periods of three hours each per week; also more than twenty special demonstrations of which the following are types: the function of the depressor nerve, the action of secretin and enterokinase, absorption from liver lymph channels. Required of medical students. Deposit required. 5 hours.

For Undergraduates and Graduates

Physiology 101a. Advanced Physiology: This course is planned for graduate students and other properly qualified persons who wish to do advanced work or specialize in physiology. Each student is required to read classical papers in physiology and carry on an investigation under the direction of the instructor in charge. Prerequisite, Physiology 6 and 7 or their equivalent. 2 or 4 hours.

Physiology 102 b. Advanced Physiology: This is a continuation of Physiology 101. 2 or 4 hours.

POLITICAL SCIENCE

Professor Alley, Professor Foster, Associate Professor Floyd, Mr. Dale

The courses in political science are designed as an aid to good citizenship and general culture and as a part of the preparation for the public service and the profession of law.

Political Science 1 is a prerequisite for all courses in political science.

Primarily for Undergraduates

Political Science I. American Government and Politics: A study of the American government, federal, state, local and municipal, together with the forces and influences affecting governmental operation. This course is required of all candidates for a degree. This is one of the prescribed courses. Professor Alley, Associate Professor Floyd, Mr. Dale. 4 hours.

Political Science 2. General Political Science: A study of the nature of the state and of the structure and functions of government. Professor Alley. 4 hours.

Political Science 50a. The Government of Oklahoma: A study of the constitution of Oklahoma, the organization and operation of the government under it, with particular attention to municipal and local government. (Given in alternate years. Given in 1916-17.) 2 hours.

For Undergraduates and Graduates

Political Science 100a. Constitutional Law: A study of the federal constitution as interpreted by the courts. Chiefly a discussion of leading cases. Professor Foster. 2 hours.

Political Science 101b. Comparative Government: A comparative study of the principal governments of Europe. Professor Alley. 4 hours.

Political Science 102a. International Law: The general principles of the law governing the relations between states—the law of peace, the law of war, and the law of neutrality. Professor Alley. 4 hours.

Political Science 103b. American Diplomacy: Foreign policy of the United States. Arbitrations, American contributions to international law. Open to students who have taken a course in international law. (Given in alternate years. Given in 1915-16.) Professor Alley. 4 hours.

Political Science 104a. Administration: The organization, function, and practical working of administrative authorities in the

United States, federal, state, and local. Open only to advanced students. (Given in alternate years. Given in 1916-17.) Professor Alley. 2 hours.

Political Science 105b. Municipal Government: A study of modern city governments. Open only to advanced students. Professor Alley. 2 hours.

Political Science 106b. Party Government: The organization, methods of action, and legal control of political parties in the United States. Open to students who have had Political Science 2 or 101. Professor Alley. 2 hours.

Primarily for Graduates

Political Science 200. Problems in Political Science: An introduction to independent investigation. Special problems according to the needs of the student and the material available for use. Open, with the consent of the instructor, to advanced students. Private conferences by appointment. 1 to 3 hours.

PUBLIC SPEAKING

Assistant Professor Tanner

Public Speaking 1 and 2 are prerequisites for all other courses in public speaking.

No credit will be given for less than a year's work.

Public Speaking 1 may not be counted as major work.

English 5 (Argumentation) may count as major credit in public speaking.

Primarily for Undergraduates

Public Speaking 1a. General Preparation: Correct breathing, refined pronunciation, distinct articulation. The principles of gesture, pitch, inflection, tone-color, and emphasis. Two sections. 2 hours.

Public Speaking 2b. General Preparation: A continuation of Public Speaking 1, together with oratorical delivery. Two sections. 2 hours.

Public Speaking 5a. Advanced Oratory: An advanced course in the delivery of orations. 2 hours.

Public Speaking 6b. Advanced Oratory: A continuation of Public Speaking 5, together with the delivery of more dramatic forms of literature. 2 hours.

Public Speaking 13a. Vocal Interpretation: An intensive study of selections from Browning, Tennyson, Dickens, etc. 2 hours.

Public Speaking 14b. Vocal Interpretation: A continuation

of Public Speaking 13, together with a study of some of the masters of interpretation. 2 hours.

Public Speaking 15a. Debating: A study of the principles of argumentation as applied to debating. Reports and discussions of some of the great American debates. Prerequisite for Arts and Sciences students, English 1. 2 hours.

Public Speaking 16b. Debating: A practical application of the principles discussed in Public Speaking 15. 2 hours.

Public Speaking 17a. Effective Speaking: The aim of this course is to train the student to think logically on public questions, and to present his material in a clear, forceful manner before an audience. 2 hours.

Public Speaking 18b. Effective Speaking: A practical application of the principles discussed in Public Speaking 17. 2 hours.

For Undergraduates and Graduates

Education 138b. Teacher's Course in Public Speaking: Investigation of the methods of teaching public speaking in the high schools. A discussion of the problems of contests in oratory, debating, extemporaneous speaking, and declamation. For those who show special aptitude for the work. 2 hours.

ROMANCE LANGUAGES AND LITERATURES

Professor Dora, Assistant Professor Curtis, Mr. Gimeno

FRENCH

Students may major in French or in Romance languages. For those who major in either French or Romance languages, French 1, 2, and 3 are required and do not count as major work. Italian 1 and 2 and Spanish 1 and 2 do not count as major work.

Primarily for Undergraduates

French 1a. Beginning French: Essentials of grammar, practice in colloquial French, prose composition, reading of easy texts. Special attention will be given to the French verb and to word order. Fraser and Squair's French Grammar, Super's French Reader, Talbot's Le Francais et Sa Patrie, and Halevy's L'Abbe Constantin. Given in two sections. Professor Dora. 4 hours.

French 2b. Intermediate French: Systematic study of grammar, French conversation, sight reading, parallel work. Fraser and Squair's Grammar, Cameron's Contes de Daudet, Merimee's Carmen,

Scribe et Legouve's Bataille de Dames. Given in two sections. Professor Dora. 4 hours.

French 3a. Romanticism: Selected works of Victor Hugo, George Sand, Alfred de Vigny, Theophile Gautier, Alfred de Musset, Lamartine, and Dumas. Class work will be conducted, as far as is practicable, in French. Themes will be written on assigned subjects. Prerequisite, French 1 and 2. Professor Dora. 4 hours.

French 4b. Romanticism: Continuation of French 3. Increasing use of French as the language of the class room. Topics assigned for original research. Comparative study of the romantic movement. French composition. Newton's French Daily Life, Vigny's Le Cachet Rouge, Hugo's La Chute. Prerequisite, French 3. Professor Dora. 2 hours.

French 5a. Realism and Naturalism: Balzac's Pere Goriot, Pailleron's L'Etincelle and Le Monde ou l'on s'ennuie, Labiche's La Cigale, Maupassant's Les Prissoniers, Zola's L'Attaque du Moulin, Daudet's Le Petit Chose, Flaubert's Salammbo. Prerequisite, French 2. Professor Dora. May alternate with French 3. 4 hours.

French 6b. Victor Hugo: Study of life and representative works. Prerequisite, French 3. Professor Dora. 2 hours.

French 7a. Rostand: A critical study of L'Aiglon, Les Romanesques, La Princesse Lointaine, La Samaritaine. Collateral reading of Chantecler, Cyrano de Bergerac, Un Soir a Hernani, etc. Reports, lectures on contemporary authors. Prerequisite, French 4. Professor Dora. 2 hours.

French 8b. French Lyric Poetry: Canfield's French Lyrics. Study of the Parnassiens, Decadents, Symbolistes and contemporary writers. Hugo, Musset, Verlaine, Lisle, Bourget, Daudet, Prudhomme, Gautier, Vigny, Rousseau, Lamartine. Prerequisite, French 4 or equivalent. Professor Dora. 2 hours.

French 10b. Maeterlinck: A study of the dramas and essays of this author, his mystical symbolism and influence. Le Tresor des Humble, Pelleas et Melisande, L'Intruse, Alladine et Palomides. La Mort de Tintagiles, L'Oiseau Bleu. Lectures and discussions. Open to students of sufficient preparation. Professor Dora. 2 hours.

French 12b. Balzac: Study of representative works in each group of La Comedie Humaine; influence upon contemporary novelists and upon the development of the novel during the latter half of the century. Professor Dora. 2 hours.

For Undergraduates and Graduates

French 100b. History of French Literature: Required of all major students. Fortier's Litterature Francaise, Kastner and Atkin's

History of French Literature, and reference work from Lanson's Litterature Francaise. Special attention given to eighteenth century authors, Voltaire, Rousseau, Marivaux, Montesquieu, Beaumarchais, Le Sage. Students will write on completion of this course a monograph embodying the results of their work in certain assigned branches of the subject. Prerequisite, French 4. (Given in alternate years. Given in 1915-16.) Professor Dora. 4 hours.

French 101a. Classicism: Study of political, social, and literary history of the seventeenth century. Lectures upon the French salon French Academy, and famous personages of the age. Corneille's Polyeucte, Horace, Le Cid; Moliere's L'Avare, Les Precieuses Ridicules, Les Femmes Savantes; Racine's Athalie, Iphigenie, Adromaque, Les Plaideurs. Prerequisite, French 4. Professor Dora. 2 hours.

French 103a. Seminary in French Literary Criticism: Hugo, Boileau, Sainte-Beuve, Renan, Taine, Brunetiere, France, and Faguet. Professor Dora. 2 hours.

French 104b. Seminary: Salons of the 17th and 18th centuries. Professor Dora. 2 hours.

French 105a. Moliere: Life, comedies and influence upon 18th century drama. May be taken alone or with French 101. Professor Dora. 2 hours.

Education 134b. Teacher's Course in French: Study of methods of teaching French in secondary schools. Analysis of texts adapted to high school work. Special study of phonetics, with use of the Yersin charts. Review of grammar; study of style; practice in teaching. (Given in alternate years. Given in 1915-16.) Professor Dora. 2 hours.

ITALIAN

Italian 1a. Elementary Italian: Grammar, composition, and reading of modern authors. Mr. Gimeno. 4 hours.

Italian 2b. Elementary Italian: Continuation of Italian 1. Mr. Gimeno. 4 hours.

SPANISH

Primarily for Undergraduates

Spanish 1a. Elementary Spanish: Constant drill in pronunciation, the conjugations, and spoken Spanish. Practice in writing from dictation. Reading of short stories of moderate difficulty. Elementary composition. Assistant Professor Curtis. 4 hours.

Spanish 2b. Intermediate Spanish: Reading of modern prose, such as selections from the writings of Alarcon's Galdos, Valdes, Bazan, etc. Study of special grammatical constructions. Assistant Professor Curtis. 4 hours

Spanish 3a. Modern Spanish Literature: Portions of the pr

and verse of Alarcon, Galdos, Pereda, Valera, Bazan. Fernan Caballero, Echegaray, and Nunez de Arce will be read. Parallel readings and reports. Assistant Professor Curtis. 4 hours.

Spanish 4b. Advanced Spanish Literature: Continuation of Spanish 3. Selected readings from Calderon, Lope de Vega, Tirso de Molina, and Cervantes' Don Quixote. Themes and special reports. Assistant Professor Curtis. 4 hours.

Spanish 5a. Composition: Systematic practice in speaking and writing Spanish. Spanish correspondence. Themes and essays in Spanish. This course may be taken to supplement Spanish 3. Assistant Professor Curtis. 4 hours.

Spanish 6b. Advanced Composition: A continuation of Spanish 5; it may be taken to supplement Spanish 4. Assistant Professor Curtis. 4 hours.

SOCIOLOGY

Professor Dowd, Assistant Professor Adams

Sociology 1 and 2 may not count as major work.

Primarily for Undergraduates

Sociology 1a. Elements of Sociology: A study of the factors that determine social life, such as climate, flora and fauna, and inherited psychological characteristics. The origin and development of social institutions such as government, law, the family, economic organizations, religion, art, education, ceremonies and customs are investigated. Lectures and assigned readings. Professor Dowd and Assistant Professor Adams. 4 hours.

Sociology 2b. Practical Social Problems: A study of the application of general sociological principles to the solution of current problems. The subjects investigated are the slums of New York, London, Chicago, and Philadelphia; poverty, its causes and remedies; unemployment; the tenement house reform; municipal and domestic sanitation; pure food regulation; industrial education for the masses; the liquor traffic; social settlement work; the organization of charity; care of the blind, deaf, insane, and the sick; prevention, punishment, and reformation of crime, etc. Lectures and assigned readings. Professor Dowd. 4 hours.

Sociology 3a. Rural Sociology: A study of domestic sanitation, beautifying of home and yards, relation of parents and children; problems of education, the family, religion and civil government with special reference to rural populations. 2 hours.

For Undergraduates and Graduates

Sociology 100b. Criminology: A study of the causes, prevention, and treatment of crime, including an investigation into the hereditary, anthropometrical, psychological, and sociological factors; the relation of crime to genius and insanity; criminality and degeneracy among artists, musicians, painters, poets, inventors, and reformers; relation of crime to political and social conditions, epochs, occupation, sex, race, and climate, etc. Lectures and assigned readings. Professor Dowd. 2 hours.

Sociology 101a. Modern Race Problems: A study of the negro, Indian, Mongolian, and Jew, in the light of their racial origin and characteristics; the causes of race conflicts and the means of avoiding and remedying them. The object of this course is to discover the characteristics in each race which may be advantageously assimilated by all and those which require modification and elimination; to equip students who may enter commercial life, law, politics, and public service with such knowledge of these races as will make for the uplifting of each and the harmony of all. Lectures and assigned readings. Professor Dowd. 2 hours.

Sociology 102a. Social Evolution: A study of the development of society from the savage state to the present, in respect to the economic, familial, political, aesthetic, and religious life, racial heredity, physical and social environment as modifying factors. A comparative study is made of the civilization of the Mexicans, Egyptians, Greeks, Romans, French, Germans, and Americans. The main object is to ascertain the social causes and laws, and to apply the underlying principles thus discovered to whatever is abnormal or retrogressive. Professor Dowd. 4 hours.

Sociology 103b. Ethnology: A study of the human races, their physical, intellectual, and social peculiarities. Origin and differentiation of races; the conflict and survival of races; influence of geographical and physical environment. Lectures and assigned readings. (Given in alternate years. Given in 1915-16.) Professor Dowd. 2 hours.

Sociology 104b. Anthropology: A study of man in the light of archaeology, physical anthropology, and sociology; his stature and proportions, form of head and development of brain; his mental and moral organization; the origin of his speech, language, writing, inventions, implements, musical instruments, songs, folklore, painting, drawing, sculpture, customs, ceremonies, etc. (Given in alternate years. Given in 1916-17.) Professor Dowd. 2 hours.

Classical Archaeology 1a. Private Life of the Greeks: Text-

book and lectures, illustrated with photographs and lantern slides. (See Classical Archaeology.) Professor Paxton. 2 hours.

Classical Archaeology 2b. Private Life of the Romans: See (Classical Archaeology), Professor Paxton. 2 hours.

Zoology 104a. Heredity and Variation: (See Zoology.) Professor Lane. 4 hours.

Primarily for Graduates

Sociology 200b. History of Sociological Thought: A study of the principal sociological writers in France, Germany, England, and the United States from the sixteenth century to the present. Professor Dowd. 2 hours.

Sociology 201a. Sociological Aspects of Art: A study of the origin and development of the fine arts among the different races and nations, investigations of the development of the characteristic national traits and the manner in which they are expressed in art; the relation of art to morals, to idealism, and to economic progress; the causes of degeneracy in art, etc. Professor Dowd. 2 hours.

Sociology 202a. Seminary for Research: 1 to 3 hours.

ZOOLOGY

Professor Lane, Assistant Professor Allee

The courses in zoology are planned to give the student a thorough knowledge and understanding of the fundamental facts and theories of the science, so that he may be well equipped either for teaching or for investigation. Zoology 1, 2 and 3 are general culture courses, any two of which will fulfill the group requirement; the courses so used may not be counted as major work. The prospective high school teacher should take all three as the minimum necessary for his preparation in this subject; but in addition he will find it highly advantageous to pursue Zoology 100, 102, 103, 104, 105 and Education 137.

Zoology 2 satisfies the entrance requirement for medical students.

Primarily for Undergraduates

Zoology 1a. General Zoology: A survey of the fundamentals and generalizations of the science of zoology with special regard to the laws of life, the relationships of living things, and such biological problems as are more or less intimately related to human life, welfare, and culture. The laboratory work consists of the study of selected invertebrate types from the standpoints of structure, physiology, life history, and biological relations. Deposit required. Professor Lane and Assistant Professor Allee. 4 hours.

Zoology 2b. General Zoology: An elementary consideration of the vertebrates from the standpoints of structure, physiology, life-

history and biological relations. The laboratory work consists of the study of the fish, frog, and mammal. Required of prospective medical students. Prerequisites, Zoology 1 or 3, or Botany 1. Deposit required. Professor Lane. 4 hours.

Zoology 3b. Elementary Animal Ecology: A study of local animal life based on lectures, assigned readings, field trips to nearby points and to the Arbuckle Mountains, and laboratory work on the classification and structural characters of Oklahoma animals. Especially designed for prospective teachers and students who wish to become acquainted with the abundant local fauna. No prerequisite, though Zoology 1 is recommended. Deposit required. Assistant Professor Allee. 4 hours.

For Graduates and Undergraduates

Zoology 100b. Invertebrate Zoology: An advanced study of the development, classification, and natural history of the invertebrates. Lectures, recitations, assigned readings, and a study of a number of types of representative invertebrates. Deposit required. Prerequisite, Zoology 1 and 2, or 1 and 3. Parker and Haswell, Textbook of Zoology, Vol. I. and Drew, Laboratory Manual of Invertebrate Zoology. Assistant Professor Allee. 4 hours.

Zoology 102a. Vertebrate Zoology: An advanced study of the structure, classification, natural history, and paleontology of the vertebrates. Lectures, recitations, assigned readings, and dissection. Deposit required. Prerequisite, Zoology 1 and 2. Parker and Haswell, Textbook of Zoology, Vol. II, and various laboratory guides. Professor Lane. 4 hours.

Zoology 103b. Vertebrate Embryology: A study of the essentials of vertebrate embryology with special regard to organogeny in the chick, pig, and man; use is made of whole mounts of embryos, sections, dissections, and models. Deposit required. Prerequisite, Zoology 1 and 2. Professor Lane. 4 hours.

Zoology 104a. Heredity and Variation: A course of lectures, assigned readings, and reports on heredity and variation, including such topics as the physical basis of heredity, theories of heredity, Mendelism, law of ancestral inheritance, the practical application of known principles of heredity to the problems of the animal breeder, eugenics, and the modification of animals by hereditary, environmental, and other influences. Open only to those who have had one year's work in zoology, botany, or physiology. Professor Lane. 4 hours.

Zoology 105a. Advanced Animal Ecology: A continuation of Zoology 3, dealing with the general principles of the behavior, local and world distribution of animals. Lectures, field trips to local

points and to the Arbuckle Mountains, individual reading and laboratory work as assigned. Prerequisites, Zoology 1, 2, 3, or Zoology 3, Chemistry 1 and Geology 1. Assistant Professor Allee. 4 hours.

Zoology 106a. Special Zoology: A course of lectures, assigned readings and laboratory work on special phases of zoology, designed particularly as an introduction to the work usually done in the graduate school and therefore intended for major students who expect to enter zoological work as a life profession. Students should consult the instructor before enrolling in this course. Credit and hours to be arranged. Professor Lane and Assistant Professor Allee.

Zoology 107b. Special Zoology: A continuation of Zoology 106. Credit and hours to be arranged. Professor Lane and Assistant Professor Allee.

Education 137b. Teacher's Course in Zoology: A course designed particularly for prospective teachers of nature study in the public schools or zoology in high schools. Lectures on such topics as: the history of zoology; the pedagogical value and methods of the science, especially in its relation to secondary education; outlines of courses for public school and high school curricula; the collection and preservation of zoological material, etc. In the laboratory, each member of the class is given practical experience in teaching zoology, together with a critical consideration of his material and method. Prerequisite, Zoology 1 2, and 3. Assistant Professor Allee. 2 hours.

Primarily for Graduates

Zoology 200a. Advanced Zoology: Problems in research. Lectures and laboratory. Deposit required. Students should consult the instructor before enrolling in this course. Credit and hours to be arranged.

Zoology 201b. Advanced Zoology: Problems in research. Lectures and laboratory. Deposit required. Student should consult the instructor before enrolling in this course. Credit and hours to be arranged.

Zoology 200 and 201 consist of lectures on the nature of research in zoology, the problems to be solved, methods and technic of attack, bibliography, etc. Each student is assigned a problem suited to his capacity and training, and is guided to its solution with the purpose in view of the presentation of a creditable and original thesis.

THE SCHOOL OF FINE ARTS

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

FREDRIK HOLMBERG, B. M.
Dean of the School of Fine Arts, Professor of Music.

JOSEPH FRANCIS PAXTON, A. M.
Professor of Greek and Classical Archaeology.

*ROY GITTINGER, A. M.
Professor of English History.

THEODORE HAMPTON BREWER, M. A.
Professor of English Literature, Director of the School of Journalism.

LUCILE DORA, M. A.
Professor of the Romance Languages and Literatures.

*ROY TEMPLE HOUSE, A. M.
Professor of German.

WARREN WAVERLEY PHELAN, Ph. D.
Professor of Psychology, Director of the School of Education.

EVA ELLSWORTH DUNGAN.
Associate Professor of Piano and Public School Music.

CHARLES FRANCOIS GIARD.
Associate Professor of Piano and Theory of Music.

RICHARD GRAY SOUTAR, B. A.
Professor of Physical Education.

PATRICIO GIMENO, B. A.
Assistant Professor of Art, Instructor in Italian.

BURTON FRANK TANNER, B. L.
Assistant Professor of Public Speaking.

LLOYD BURGESS CURTIS, B. S.
Assistant Professor of Spanish.

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*On leave of absence, 1914-15.

ELIZABETH CHURCH, Ph. D.
Adviser of Women, Assistant Professor of English.

LEWIS SPENCER SALTER, B. M.
Instructor in Piano and Theory of Music.

NELLIE MAY MCGINLEY.
Instructor in China Painting.

RACHEL REVELL, Ph. B.
Instructor in Physical Training.

GEORGE WILLIAM SCHMIDT, B. M.
Instructor in Voice.

†LOUIS COGSWELL.
Associate Professor of Voice.

PAUL S. CARPENTER.
Instructor in Violin.

DORIS MUNDY, B. M.
Instructor in Piano.

‡METTA KATHRYN LEGLER.
Instructor in Voice.

MOLLIE ANNE PETERSON, Ph. B.
Instructor in Art.

OLA ALICE FORBES, B. A.
Fellow in Art.

†Resigned October 1, 1914.
‡From November 15, 1914.

THE SCHOOL OF FINE ARTS

The School of Fine Arts is on the third floor of the new University Hall. The studios and class rooms, especially fitted for the work, are large, commodious, and sound-proof.

The School of Fine Arts offers:

a. Four years' work in the theory of music, in piano, in voice, and in violin, leading to the degree of Bachelor of Music;

b. Four years' work in drawing and painting, leading to a certificate in art;

c. Four years' work in domestic art, leading to a certificate in art;

d. Regular classes and individual instruction in dramatic art and expression;

e. Courses in violoncello, cornet, and other band and orchestra instruments, and in water-color and china painting;

f. Graduate work in piano, voice, and violin for those who desire to make public performances and repertoire a specialty.

g. Preparatory work in piano, voice, and violin.

RECITALS, CONCERTS

The work of the year is interspersed with concerts and public and private recitals. The situation of Norman makes it possible for some of the best musicians to visit the city.

ORGANIZATIONS

Such organizations as the orchestra, band, glee club, and the like are maintained each year.

The orchestra meets twice a week and is open to all students who can satisfy the entrance requirements. Several concerts are given during the season.

The choral union has for its object the study of standard oratorios and other choral works. It meets once a week during the second semester.

The band furnishes music for the various athletic meets, besides assisting in concerts during the year. Two rehearsals are held each week.

The men's glee club has a membership of about twenty-five.

Membership is decided by competition. Two rehearsals are held each week.

The Mendelssohn Glee Club is an organization for young women. Two rehearsals are held each week.

The glee clubs give several concerts and entertainments during the season.

An opera is given each season by university talent.

RENDER MEDAL

Through the courtesy of Samuel P. Render, Esq., of Oklahoma City, Oklahoma, the School of Fine Arts is holder of a gold medal to be contested for annually. This medal is presented to the student who has made the highest grade in the study of harmony.

CONCERT COMPANIES

Concert companies, consisting of members of the faculty of the School of Fine Arts and advanced students, are organized for the purpose of giving concerts on the university extension circuits.

Trips are also arranged for the different musical organizations such as the orchestra, the band, the glee club, and the quartettes.

INTERSCHOLASTIC CONTEST

An interscholastic contest in music, in art, and in expression for high school pupils is conducted by the School of Fine Arts each year in connection with the interscholastic track and field meet. The winners of these contests receive free scholarships. Particulars will be furnished on application to the dean of the School of Fine Arts.

DEGREES

Upon the satisfactory completion of the prescribed and elective studies in music as outlined below, the candidate will receive the degree of Bachelor of Music (B. M.,) qualified by the department in which the major work has been done.

Certificate for Musical Supervisors

Upon satisfactory completion of the following courses, candidates will be granted a certificate as Supervisor of Public School Music:

Music 1, 5, 6, 8, and 9, Education 139 and 140, Group I in Voice and English 1 and 2.

Certificates in Art

Upon satisfactory completion of the courses outlined in the history of art and in applied art, the candidate will receive a certificate in art.

Upon satisfactory completion of the courses outlined in domestic art the candidate will receive a certificate in art.

ADMISSION

Applicants may be admitted to the School of Fine Arts as candidates for a degree, as unclassified students, or as preparatory students. Candidates for a degree are admitted either to first year work without condition, or to advanced standing.

Admission to First Year Work

Applicants for admission to first year work should be at least sixteen years of age and should be graduates of a high school or have had an equivalent training.

The requirements for admission are given below in units:

	UNITS
English	3
One Foreign Language	2
History	1
Algebra	1
*Piano or Violin	3
Electives	5
	15

*For entering the department of art three elective units may be substituted for these.

1. For admission to the courses in piano or in voice, students must have completed Landon, Bertini, Berger, Vogt, two Clementi Sonatinas, two Kulau Sonatinas. They must be able to play easy compositions such as Schumann's "Happy Farmer," Schumann's "The Wild Horseman," Gurlitt's "Consolation," Saeboeck's "Lullaby," Godard's "Waltz," Bohm's "Mazurka," Kjerulf's "Cradle Song," Barilli's "Cradle Song." The equivalent of any of the above may be substituted.

For the satisfactory completion of this work three admission units are granted.

2. For admission to the courses in violin, students must have completed Kayser's Etudes, Book I and II, Schradieck's Technic (Section I) Dancla's six Air Varies, or the equivalent of the above mentioned works.

For the satisfactory completion of this work three admission units are granted.

Credit for the above described preparatory courses in music is given only on examination. Candidates who cannot secure admission credits in music may take these courses in the university but without university credit.

A description of all work that may be offered to satisfy the required or elective units as well as a statement of the ways in which credit may

be secured for work done in high school may be found in the university catalogue, under the head of "Admission."

Admission as Preparatory Students in Music

Students taking preparatory courses in music outlined above will be classified as preparatory students in the School of Fine Arts.

Admission as Unclassified Students in Music

Students who have credit for the required admission units in music but who are otherwise deficient in entrance requirements will be enrolled as unclassified students and allowed to take such technical work in music as may best suit their needs.

Admission to Advanced Standing In Music

Applicants may secure advanced standing for technical or applied work in this school only with the approval of the department concerned. Advanced standing for academic subjects is given under the regulations adopted for the College of Arts and Sciences.

FEES AND DEPOSITS

Tuition is free in all courses offered in the School of Fine Arts. For individual lessons the university collects fees for the respective instructors as follows:

For preparatory music, piano, voice or violin, two thirty-minute lessons a week, $18.00, $27.00, or $36.00 a semester depending on which instructor is chosen.

For applied music (piano, voice, violin) Groups I, II, III, or IV, two thirty-minute lessons a week, $18.00, $27.00, or $36.00 a semester depending on which instructor is chosen. Students regularly admitted to Group IV in the University of Oklahoma in applied music are not required to pay tuition, if at least one of the preceding groups has been taken in the University of Oklahoma.

For instruction in band and orchestra instruments, two thirty-minute lessons a week, $18.00 a semester.

For water-color or china painting, two four-hour lessons weekly, $27.00 a semester.

For courses in expression, first, second, or third year, two thirty-minute lessons a week, $27.00 a semester.

Fees are payable strictly in advance and no lessons will be given until a receipt from the financial clerk is presented to the instructor.

Fees are not refunded except when a student must discontinue his lessons for unavoidable cause.

Students absent from more than one-third of the lessons for which

they are enrolled in applied music or expression will be dropped and no fees will be refunded.

In the courses in drawing, painting, and domestic art students must pay for their own material.

PIANOS FOR PRACTICE

Pianos for practice may be rented from the university, or from music houses, for use one hour a day at a cost of $0.75 to $1.00 a month; for two hours a day at a cost of $1.50 to $2.00 a month. A piano for exclusive use of one or more pupils will cost from $3.50 to $5.00 per month.

SPECIAL RULES AND REGULATIONS OF THE SCHOOL OF FINE ARTS

Students regularly enrolled in the School of Fine Arts will not be permitted to take more than twelve hours of work besides the technical (or applied) work in music, expression, or art. Eight hours shall be considered average work. This rule will be waived only in exceptional cases, and then only by a three-fourths vote of the faculty of the School of Fine Arts. No student who has received a mark of failure, or who has a condition that is not removed on or before the first Saturday of the following semester, shall enroll for more than eight hours outside of the technical work in music, art, or expression.

No student is permitted to take part in any public performance without the consent of the instructor. A student violating this rule will not be given credit for work done in applied music or expression during the semester in which the rule is violated.

Lessons falling on legal holidays will not be made up except by special arrangement with the instructor.

Lessons missed through a student's own negligence will not be made up.

The art department reserves the right to keep drawings, paintings, etc., done by students, for the university art collection. A student taking away drawings and paintings without permission will not receive credit for the specimens of work taken away.

Students in applied music are required to attend rehearsals and take part in public performances connected with the university when the faculty of the School of Fine Arts thinks it will benefit the students. This rule will be strictly enforced, and students violating the same will be conditioned in applied music until such students become regular in this work. Graduate students violating this rule will be dropped from the course.

Students in the School of Fine Arts are not charged fees for ap-

plied music during the senior year in the particular branch in which they major.

No fees are charged for the first year of graduate work.

All work in applied music and art catalogued in Group IV must be completed in residence with an instructor regularly employed by the university. No degree will be given in violation of this rule.

RULES FOR RECITALS

Students in voice, violin, and piano, who are pursuing the regular fine arts course, must attend at least two-thirds of the pupils' recitals given each semester. Special fine arts students, those enrolled in the School of Fine Arts and taking applied music only, and students enrolled in any other school or college in the university and taking applied music in the School of Fine Arts, are required to attend at least one-half the pupils' recitals each semester. Compulsory attendance is not required of special students in applied music who are below Group I. Students violating this rule are conditioned in applied music until the deficiency is removed.

The above rules do not apply to any musical entertainments where admission is not free.

CREDIT FOR WORK DONE IN MUSICAL ORGANIZATIONS

Credit will not be given to any student for work in musical organizations until such student has been a member of an organization for one semester. After the above requirements have been fulfilled credit may be received towards a B. M. degree as follows:

For work in orchestra 1-2 hour credit a semester.

For work in glee club 1-2 hour credit a semester.

For work in band 1-2 hour credit a semester.

For work in chorus 1-2 hour credit a semester.

Absences from rehearsals will be checked against a student in this work under the rules that govern work in regular classes of the university.

Not more than four hours credit for work done in any one of the above mentioned organizations will be granted towards a degree.

ENROLLMENT AND CHANGE OF STUDIES

Students may enroll in applied or technical work in music, expression, or art, at any time in a semester, but if they wish to complete regular courses they should enter at the beginning of a semester.

Students must enroll in theoretical courses in music or art at the beginning of the semester, except as provided for in the rules for "Change of Studies."

For additional information about enrollment see "Method of Enrollment" under "General Information."

OUTLINE OF COURSES IN MUSIC

OUTLINE OF COURSES LEADING TO B. M. DEGREE IN THEORY OF MUSIC

Candidates for the B. M. degree in theory of music must complete Groups I, II, and III in piano, in voice, or in violin, in addition to the courses in the following outline.

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (History of Music)	2	Music 6 (History of Music)	2
English 1	4	English 2	4
Public Speaking 1	2	Public Speaking 2	2
Physical Training 1 or 51	1	Physical Training 2 or 52	1
	13		13

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1 or French 1	4	German 2 or French 2	4
Elective	2	Philosophy 109	2
	8		8

Junior Year

Music 100 (Canon)	2	Music 101 (Fugue) or Music 104(Musical Analysis)	2
Music 7 (Musical Forms)	2	Elective	2
Music 102 (Instrumentation)	2	Music 103 (Instrumentation)	4
	6		8

Senior Year

Music 105 (Composition)	4	Music 106 (Composition)	4
Music 107(Adv. Hist.of Music)	2	Music 108 (Adv. Hist. of Music)	2
Elective	4	Music 109(Adv.Instrumentation)	2
	10		8

OUTLINE OF COURSES LEADING TO B. M. DEGREE IN PIANO

Candidates for the B. M. degree in piano must complete Groups I, II, III, and IV in piano in addition to the courses in the following outline:

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (Hist. of Music)	2	Music 6 (Hist. of Music)	2
English 1	4	English 2	4
Physical Tr. 1 or 51	1	Physical Tr. 2 or 52	1
	11		11

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1 or French 1	4	German 2 or French 2	4
Elective	2	Elective	2
	8		8

Junior Year

Music 100 (Canon)	2	Music 101 (Fugue) or Music 104 (Musical Analysis)	2
Music 7 (Musical Forms)	2	Music 111 (Theory of Teaching Piano	2
Music 110 (Mus. Pedagogy)	2	Elective	2
	6		6

Senior Year

Music 102 (Instrumentation)	2	Music 103 (Instrumentation)	4
Music 112 (Practice of Teaching Piano)	2	Music 113 (Practice of Teaching Piano)	2
Elective	2		
	6		6

OUTLINE OF COURSES LEADING TO B. M. DEGREE IN VOICE

Candidates for the B. M. degree in voice must complete Groups I, II, III, and IV in voice in addition to the courses in the following outline:

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (Hist. of Music)	2	Music 6 (Hist. of Music)	2
English 1	4	English 2	4
Physical Tr. 1 or 51	1	Physical Tr. 2 or 52	1
	11		11

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1	4	German 2	4
Elective	2	Elective	2
	8		8

Junior Year

Music 100 (Canon)	2	Music 101 (Fugue) or Music 104 (Musical Analysis)	2
Music 7 (Musical Forms)	2	Music 114 (The Theory of Teaching the Art of Singing)	2
Music 110 (Mus. Pedagogy)	2	Italian 2	4
Italian 1	4		
	10		8

Senior Year

Music 102 (Instrumentation)	2	Music 103 (Instrumentation)	4
Music 115 (The Practice of Teaching the Art of Singing)	2	French 2	4
French 1	4		
	8		8

OUTLINE OF COURSES LEADING TO THE B. M. DEGREE IN VIOLIN

Candidates for the B. M. degree in violin must complete Groups I, II, III, and IV in violin in addition to the courses in the following outline:

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (Hist. of Music)	2	Music 6 (Hist. of Music)	2
English 1	4	English 2	4
Physical Training 1 or 51	1	Physical Training 2 or 52	1
	11		11

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1 or French 1	4	German 2 or French 2	4
Elective	2	Elective	2
	8		8

Junior Year

Music 100 (Canon)	2	Music 101 (Fugue) or Music 104 (Musical Analysis	2
Music 7 (Musical Forms)	2	Music 116 (The Theory of Teaching Violin)	2
Music 110 (Mus. Pedagogy)	2	Elective	2
	6		6

Senior Year

Music 102 (Instrumentation)	2	Music 103 (Instrumentation)	4
Music 117 (Practice of Teaching Violin)	2	Music 118 (Practice of Teaching Violin)	2
Elective	2		
	6		6

OUTLINE OF COURSES LEADING TO CERTIFICATE IN ART

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Art 1	4	Art 2	4
Art 9	2	Elective	2
English 1	4	English 2	4
German 1	4	German 2	4
Physical Training 1 or 51	1	Physical Training 2 or 52	1
	15		15

Sophomore Year

Art 3	4	Art 4	4
Art 11	2	Art 12	2
French 1	4	French 2	4
History 159	4	History 160	4
	14		14

Junior Year

Art 5	4	Art 6	4
Art 13	2	Art 14	2
Public Speaking 1	2	Classical Archaeology 4	4
Elective	8	Public Speaking 2	2
		Philosophy 109	2
		Elective	2
	16		16

Senior Year

Art 7	4	Art 8	4
Italian 1	4	Italian 2	4
Elective	8	Elective	8
	16		16

OUTLINE OF COURSES LEADING TO CERTIFICATE IN DOMESTIC ART

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Art 1	4	Art 2	4
Art 9	2	Elective	2
English 1	4	English 2	4
German 1	4	German 2	4
Physical Training 1 or 51	1	Physical Training 2 or 52	1
	15		15

Sophomore Year

Art 3	4	Art 4	4
Art 11	2	Art 12	2
French 1	4	French 2	4
History 159	4	History 160	4
	14		14

Junior Year

Art 21	2	Art 22	2
Art 23	2	Art 24	2
Art 13	2	Art 14	2
Public Speaking 1	2	Classical Archaeology 4	4
Elective	8	Public Speaking 2	2
		Philosophy 109	2
		Elective	2
	16		16

Senior Year

Art 25	2	Art 26	2
Art 27	2	Art 28	2
Italian 1	4	Italian 2	4
Eleetive	8	Elective	8
	16		16

DESCRIPTION OF COURSES

Credit will be given in the College of Arts and Sciences for not more than twenty-seven hours in the history and theory of music and in the history of art, of which twenty-one hours may be in music and six hours in art.

Courses marked "a" are first semester courses. Courses marked "b" are second semester courses.

THEORY AND HISTORY OF MUSIC

Professor Holmberg, Associate Professor Dungan, Associate Professor Giard, Mr. Salter, Mr. Schmidt, Mr. Carpenter

Primarily for Undergraduates

Music 1a. Harmony: A study of the fundamental principles of music, beginning with the origin and development of scales and intervals. Practical work in connecting simple chords, chords of the seventh, augmented triads, augmented sixths, and cadences. Special attention will be given to simple harmonic phrasing and ear training. Harmony, by Emory, Prout, and Richter. Mr. Salter. 4 hours.

Music 2b. Harmony: A continuation of Music 1. A study of modulations, suspensions, anticipations, appogiaturas, passing notes, organ point, choral writing, and accompaniment. Most of the work in this course will consist of original exercises. Texts for reference, Harmony, by Jadassohn, Richter, and Chadwick. Mr. Salter. 4 hours.

Music 3a. Counterpoint: The principles of harmony are applied to melodious treatment of several parts in combination. Chorals and melodies are harmonized with free use of passing notes, etc., with and without cantus firmus. Original work in free composition in the smaller forms. Prerequisite, Music 1. Associate Professor Giard. 2 hours.

Music 4b. Counterpoint: A continuation of Music 3. Special study in free and double counterpoint, imitative counterpoint, and inventions. Vocal counterpoint and choral works. Original exercises in composition. Prerequisite, Music 1, 2, and 3. Associate Professor Giard. 2 hours.

Music 5a. History of Music: This course embraces a systematic study of the origin and development of music of the ancient

oriental nations, the music of the early Christian age, the beginning of polyphony, and the musical sovereignty of the Netherlanders. This is a literary course and does not require any special musical training. Text and readings. Mr. Salter. 2 hours.

Music 6b. History of Music: This course consists of a study of the music of the sixteenth century and the historical development of secular and sacred music of the classic, romantic, and modern schools. Lectures and readings. An aeolian orchestrelle is used to illustrate the great masterworks. Mr. Salter. 2 hours.

Music 7a. Musical Forms: A study of the origin and development of the various musical forms, including designs, the phrase and section, song forms of one, two, and three periods, applied song forms, the old dance forms, the suite, the sonata form, rondo forms, the overture, the concerto, vocal forms, modern dance forms, etc. For reference, texts by Prout, Elson, and Pauer. An aeolian orchestrelle is used to illustrate the larger works. Prerequisite, Music 1 and 2. Associate Professor Giard. 2 hours.

Music 8a. Public School Music: This course is designed for students who expect to combine the teaching of other branches with the subject of music in the public schools. The work consists of a study of the technical points to be presented in the school and the practice of songs suitable for school use. The course is open to all college students. No technical knowledge is required. Twice a week. Associate Professor Dungan. 1 hour.

Music 9b. Public School Music: A continuation of Music 8. Special attention will be given to the art of conducting classes in four part singing, and no one will receive a passing grade in the course who does not thoroughly know the words and music of the most prominent national songs of the United States Prerequisite, Music 8. Twice a week. Associate Professor Dungan. 1 hour.

For Undergraduates and Graduates

Music 100a. Canon: A study of canon in two or more parts, similar and contrary motion. Original work in composition in the larger forms. Prerequisite, Music 1, 2, 3, and 4. Associate Professor Giard. 2 hours.

Music 101b. Fugue: The work consists of the analysis and composition of fugues in two, three, and four parts. Advanced forms of vocal and instrumental music will be composed by the students. Professor Holmberg. 2 hours.

Music 102a. Instrumentation: This course embraces lectures on the art of instrumentation with special reference to the compass, quality of tone, balance, and contrast of the various instruments. Exercises in simple orchestration. Books for reference by Beriloz,

Prout, and Gavaert. Prerequisite, Music 1, 2 3, 4, and 7. Professor Holmberg. 2 hours.

Music 103b. Instrumentation: This is a continuation of Music 102. It requires practical work in orchestration in the larger musical forms, using for this purpose selections from the works of the masters and the original compositions of the students. Professor Holmberg. 4 hours.

Music 104b. Musical Analysis: This course is offered to those who desire an analytical knowledge of musical composition from an intellectual and emotional standpoint. This course may be substituted for Music 101. Prerequisite, Music 1, 2, 3, and 7. Four times a week. Professor Holmberg. 2 hours.

Music 105a. Composition: The work consists principally of original compositions and analytical studies of modern compositions. Prerequisite, Music 1, 2, 3, 4, 7, and 100. Associate Professor Giard. 4 hours.

Music 106b. Composition: A continuation of Music 105. Associate Professor Giard. 4 hours.

Music 107a. Advanced History of Music: A study of musical development of the twentieth century, and weekly reports on current musical events. Prerequisites, Music 5 and 6. Professor Holmberg. 2 hours.

Music 108b. Advanced History of Music; A continuation of Music 107. Prerequisite, Music 107. Professor Holmberg. 2 hours.

Music 109b. Advanced Instrumentation: Original compositions for chorus, and orchestra, etc. Part of the time is used for analyzing modern orchestral scores. Prerequisites, Music 102 and 103. Professor Holmberg. 2 hours.

Education 139a. Teacher's Course in Music: This course is designed for those who wish to fit themselves for the special work of supervisors of music in public schools. It includes the following subjects: rote songs and their application to school work; elements of music as presented in the grades, and best methods of reading; study of the child voice; sight-singing and ear training. Prerequisite, Music 8 and 9. Associate Professor Dungan. 2 hours.

Education 140b. Teacher's Course in Music: Practice in teaching; elementary harmony and musical form as presented in the high school; the problems of the supervisor and how to meet them; interpretation of songs; art of conducting; practice in conducting. Prerequisite, Education 139. Associate Professor Dungan. 2 hours.

Music 110a. Musical Pedagogy: This course includes a study of some of the principles of psychology as applied to the study of

music, and an exposition of the laws of teaching as applied to all branches of music teaching. 2 hours.

Music 111b. The Theory of Piano Teaching: A course designed to equip the prospective piano teacher. It includes (1) a practical study of hand position, relaxation, and muscular conditions; the various technical problems in the trill, scale, chord, arpeggio, and octave; the pedals, embellishments, phrasing, etc., and the methods of presenting these subjects to the pupil: (2) a detailed study of teaching materIal, studies and pieces for the piano. Prerequisite, Education 145. 2 hours.

Music 112a. The Practice of Piano Teaching: Practical experience in teaching under the supervision of one of the piano teachers is given. Prerequisite, Education 145 and 146. 2 hours.

Music 113b. The Practice of Piano Teaching: A continuation of Education 149. 2 hours.

Music 114b. The Theory of Teaching the Art of Singing: This course aims to help the students of singing, and adequately to prepare them for the teaching profession. Topics like the following will be dealt with: physiological phases of singing, breathing, tone placing, the psychological relations of the various phases of the art of singing, a choice of teaching material with special reference to the various voices and stages of development, enunciation and syllabication with special reference to program building. These topics are presented partly in lectures. Outside reading and reports are also required as a part of the work. Prerequisite, Education 145. 2 hours.

Music 115a. The Practice of Teaching the Art of Singing: The work in this course consists of practical experience in teaching the art of singing under the supervision of one of the teachers of voice culture. Prerequisite Education 145 and 148. 2 hours.

Music 116b. The Theory of Violin Teaching: The object of this course of study is to train prospective teachers how to teach, and it is the purpose of this course to give the student practical experience regarding the best methods to be used with a variety of pupils. Prerequisite, Education 145. 2 hours.

Music 117a. The Practice of Violin Teaching; Practical experience in teaching violin under the supervision of the head of the violin department is given. Prerequisite, Education 145 and 147. 2 hours.

Music 118b. The Practice of Violin Teaching: A continuation of Education 151. 2 hours.

APPLIED MUSIC

The prescribed technical work in each of the several departments is described below. The groups are so arranged that the average student can complete the work in one group each year.

PIANO

Associate Professor Dungan, Associate Professor Giard, Mr. Salter, Miss Mundy

Technical work required for the Degree of Bachelor of Music in Piano

Group I

Out of the following list of compositions, twelve must have been studied and four of the twelve must have been performed in public.

Mozart, Sonata C major
Gade, Aquarelles (3)
Jenson, The Mill
Scharwenka, op. 62
Hoffman, Mood Pictures
Schumann, op. 68 (5)
Wilm, At the Spinning Wheel

16 hours.

Group II

Out of the following list of compositions, twelve must have been studied, and four out of twelve must have been performed in public.

Hayden, Sonata E flat
Mozart, Sonata F major
Bach, Two Part Inventions (6)
Mendelssohn, Songs without Words (5)
Lavelle, Le Papillon
Litolf, Spinning Song
Raff, Fabliau
Rheinberger, Ballade A minor
St. Heller, op. 80, No. 1, 2

16 hours.

Group III

Out of the following list of compositions, twelve must have been studied, and four of the twelve performed in public.

Beethoven, Sonata op. 10, No. 2
Schubert, Sonata A major
Scarlatti, Sonata A major
Haesslor, Gigue D minor
Bach, Prelude and Fugue, No. 2
Bach, Partitas (Allamande, Courante)
Schumann, Papillons
Liszt, Consolations [2]
Grieg, op. 19
Moscheles, Preludes [8]
Chopin, Fantasie Impromptu
Chopin, Nocturne F minor
Chopin, Waltz C sharp 16 hours.

Group IV

Students may enter Group IV by examination only.

Out of the following list of compositions, a program lasting at least one hour must have been committed to memory, and performed in public. One-half of this program may be selected from the list given in Group III.

Beethoven, Concerto G major
Beethoven, Sonata op. 26
Beethoven, Sonata op. 28
Bach, Prelude and Fugue, No. 19
Bach, Italian Concerto
Chopin, Waltz in E minor
Chopin, Nocturne F sharp
Chopin, Etude E major
Chopin, Polonaise A major
Reinecke, Ballade A flat
Schumann, op. 12, Nos. 2, 3, 8, 12
Mendelssohn, Variation Serieuses
Raff, Fairy Tale
Liszt, Gnomenreigen 16 hours.

For any composition listed in the above four groups, a composition of equal merit may be substituted.

VOICE

Miss Legler, Mr. Schmidt

Technical work required for the Degree of Bachelor of Music in Voice

Group I

Out of the following list of compositions, twelve must have been studied and four of these must have been performed in public.

Special vocalizes with teacher
Concone, op. 9
The Violet, by Mildenberg
Roses, by Lynes
Night Time, by Van de Water
Singing in God's Acre, by Brackett
Sweetheart, by Hawley
Ave Maria, by Raff
Red, Red Rose, by Hastings
The Old and the Young Marie, by Cowen
Loves Sorrow, by Shelly
Jean, by Burleigh 16 hours.

Group II

Out of the following list of compositions, twelve must have been studied and four of these must have been performed in public.

Special exercises in phrasing and technique by teacher
Marchesi, op. 21, Part III
The Dream, by Rubinstein
Polly Willis, by Arne
The Lass with the Delicate Air, by Arne
Oh! Dry those Tears, by Del Reigo
At Parting, by Rogers
Asthore, by Trotre
Calm as the Night, by Bohm
Because I Love You Dear, by Hawley
The Rosary, by Nevin
Nearer My God to Thee, by B. O. Klein
Over the Stars there is Rest, by Abt
My Dreams, by Tosti 16 hours.

Group III

Out of the following list of compositions twelve must have been studied and four of these must have been performed in public.

Advanced vocalizes and technique by teacher
Marchesi, op. 21, Part IV
I'll Sing Thee Songs of Araby, by Clay
My Heart at Thy Sweet Voice, by Saint Saens
Lullaby (from Jocelyn), by Godard
Oh! Vision Entrancing, by Goring Thomas
I Love Thee, by Dudley Buck
Songs My Mother Taught Me, by Dvorak
The Message, by Blumenthal
Danny Deever, by Damrosch
Queen of the Earth, by Pinsuti
Spring Song, by Weil
For All Eternity, by Mascheroni
Ave Maria, Gounod
The Nightingale and the Rose, by Barnby
Orpheus with his Lute, by Sullivan
Among the Lilies, by Dana 16 hours.

Group IV

Students may enter Group IV by examination only.

Out of the following list of compositions, a program lasting at least one hour must be prepared, committed to memory, and performed in public. One half of this program may be selected from the list given in Group III.

Special advanced technique and tone coloring by teacher
Polonaise (from Mignon), by Thomas
Cavatina (from Faust), by Gounod
Bell Song (from Lakme), by Delibes
With Verdure Clad (from Creation), by Haydn
Toreador Song (from Carmen), by Bizet
Hear Ye Israel (from Elijah), by Mendelssohn
O! Rest in the Lord (from Elijah), by Mendelssohn
Onaway, Awake Beloved! (from Hiawatha), by Coleridge Taylor
No Torments now (from LeCid), by Massenet
Waft her, Angels (from Jephthah), by Handel
Be Thou Faithful unto Death (from St. Paul), by Mendelssohn
Celestial Aida (from Aida), by Verdi
Lend me your Aid (from Queen of Sheba), by Gounod
Elsa's Dream (from Lohengrin), by Wagner
It was not so to be (from the Trompeter), by Nessler
Sancta Maria, by Faure 16 hours.

For any composition listed in the above four groups, a composition of equal merit may be substituted.

VIOLIN

Mr. Carpenter

Technical work required for the Degree of Bachelor of Music in Violin

Group I

Out of the following list of compositions twelve must have been studied and four of these must have been performed in public.

R. Kreutzer, Forty Studies
H. Schradiek, School of Technics (Section 1)
Accolay, Concerto
G. R. Combs, Reverie
Vieuxtemps, Romanze
Vieuxtemps, Regrets
Singelee, Le Domino Noir
De Beriot, Seventh, Sixth and Fifth Air Varie
De Beriot, Scene De Ballet
Tschaikowsky, Melodie
Sarasate. Playera
Carl Reineke, Arioso
Handel, A Major Sonata 16 hours.

Group II

Out of the following list of compositions twelve must have been studied and four of these must have been performed in public.

Fiorillo, Thirty-six Studies
De Beriot, Concertos Six and Seven
Viotti, Concerto Twenty-Two
Spohr. Concerto Two
David, Andante and Scherzo
David, Russian Airs
Massenet, Meditation from "Thais"
Weiniawski, Romance sans Paroles
Weiniawski, Chanson Polonaise
Mynarski, Mazurka
Schubert, The Bee
Rust, D Minor Sonata 16 hours.

Group III

Out of the following list of compositions, twelve must have been studied and four out of the twelve must have been performed in public.

Rode, Caprices
Mendelssohn, Concerto
Spohr, Concerto No. Eight and Nine
Bach, Sonatas for violin alone (at least two)
David, Concerto No. Five
M. Bruch, Concerto in G Minor
Weiniawski, Faust Fantasia
Weiniawski, Concerto II
Leonard, Military Fantasia
Beethoven, Concerto 16 hours.

Group IV

Students may enter Group IV by examination only.

Out of the following list of compositions, a program lasting at least one hour must be prepared, committed to memory, and performed in public. One half of this program may be selected from the list given in Group III.

Leonard, Volumes I and II
Lipinski, Concerto Militaire
Molique, Concerto No. Five
Saint Saens, Concerto No. Three
Spohr, Concerto No. Seven
M. Bruch, Concerto in D Minor
M. Bruch, Scottish Fantasia
Saint Saens, Rondo Capriccioso
Vieuxtemps, Grand Concerto
Sarasate, Zigeuner weissen
Ernst, Fantasia on "Othello"
Ernst, Hungarian Airs
Bazzini, Ronde des Lutins
Bach, Sonatas for Violin alone (at least two not studied before)
16 hours.

For any composition listed in the above four groups, a composition of equal merit may be substituted.

ART

Assistant Professor Gimeno, Miss McGinley

DRAWING AND PAINTING

Courses Leading to the Certificate in Art

Assistant Professor Gimeno

Art 1a. Drawing from geometrical solids. Elementary sketching from costumed models, etc. Twelve hours a week in art studio. 4 hours.

Art 2b. Drawing from plaster casts, sketching from costumed models, and mechanical drawing. Twelve hours a week in art studio. 4 hours.

Art 3a. Drawing continued. Painting from still life. Sketching in colors from costumed models. Twelve hours a week in art studio. 4 hours.

Art 4b. Drawing continued. Painting from still life and color sketching continued. Clay modeling. Twelve hours a week in art studio. 4 hours.

Art 5a. Drawing from living models. Color sketching from living models. Landscape painting. Twelve hours a week in art studio and outdoor sketching. 4 hours.

Art 6b. Drawing continued. Landscape and portrait painting. Twelve hours a week in studio and outdoor sketching. 4 hours.

Art 7a. Five and twenty minute sketching from living models in charcoal and oil, landscape and portrait painting. Twelve hours a week. 4 hours.

Art 8b. Five and twenty minute sketching continued, oil portrait and landscape painting. Preparation of individual art exhibtion. Twelve hours a week. 4 hours.

Art 9a. Perspective: The laws of perspective and their application for pictorial purposes. 2 hours.

Water-color and China Painting

Miss McGinley

Courses in water-color painting and china painting will be given to those desiring a knowledge of the technique of these two branches of art. No credit toward graduation will be given for this work.

HISTORY OF ART

Assistant Professor Gimeno

Art 11a. The History of Painting: The history of painting to the end of the fifteenth century. Text and lectures. 2 hours.

Art 12b. The History of Painting: The history of painting from

the end of the fifteenth century to the present time. A special study will be made of modern painting. Richard Wuther's "History of Modern Painting" will be read as reference. Text, readings, and lectures. 2 hours.

Art 13a. The History of Sculpture: A brief survey of the history of sculpture from ancient times to the present. Text and lectures. 2 hours.

Art 14b. The History of Architecture: A brief course in the history of architecture from ancient times to the present. Text and lectures. 2 hours.

DOMESTIC ART

Miss Peterson

Art 21a. Theory of Aesthetic Expression: A study of line, spaces, light-and-dark proportion, and color, and the principles underlying the pleasing arrangement of these elements with reference to decorative art. 2 hours.

Art 22b. Textiles: A study of the different materials used in costume and in home decoration to determine the important utilitarian and artistic qualities that affect the particular use of each. This course should also include a brief study of the manufacture and identification of the different materials. 2 hours.

Art 23a. Home Architecture: The evolution of the house; homes of primitive people; situation, surrounding, and construction of the house: skeleton plans; general study of the home from the artistic point of view. Prerequisite, one admission unit in drawing or Art 20. 2 hours.

Art 24b. Elementary Design: A course including a discussion of and studio practice in the application of the principles of design in relation to home arts. Prerequisite, Art 21. 2 hours.

Art 25a. Costume Design: This course considers costume design from the standpoint of the controlling factors; principles of design and color, personality of the individual, purpose, and materials. Prerequisite, Art 21. (Art 22 recommended). 2 hours.

Art 26b. Costume Design: Continuation of Art 25, as applied particularly to millinery, children's clothes, and underwear. Prerequisite, Art 25. 2 hours.

Art 27a. Home Decoration: Application of æsthetic principles to home decoration; special consideration of walls, floors, and windows. Prerequisite, Art 21. (Art 25 recommended). 2 hours.

Art 28b. Home Decoration: Continuation of Art 27. Special consideration of selection and arrangement of furniture, pictures,

plants, cut flowers, silverware, dishes, table linen, and table decoration. Prerequisite, Art 27. 2 hours.

PUBLIC SPEAKING

Assistant Professor Tanner

The courses in public speaking are designed to given training along two general lines: first, interpretative reading and dramatic presentation; and second, composition and delivery of public addresses, debating, extemporaneous speaking, and oratory.

Those desiring to prepare for platform work or the teaching of reading should take courses 1, 2, 7, 8, 9, and 10; those desiring to attain ease and naturalness in public address and a knowledge of the rhetoric of an oration should elect courses 1, 2, 5, 6, 15, 16, 17, 18, English 5, and Education 138.

Private lessons in expression may be arranged for by those who wish to do more extended work than is possible in connection with class recitation. Such a course may be taken through a period of three or four years, leading up to the presentation of dramatic readings, lecture-recitals, or lectures.

Recitals will be arranged throughout the year, which will afford opportunity for students to appear in public a number of times during each semester.

Public Speaking Ia. General Preparation: Correct breathing, refined pronunciation, distinct articulation. The principles of gesture, pitch, inflection, tone-color, and emphasis. Two sections. 2 hours.

Public Speaking 2b. General Preparation: A continuation of Public Speaking 1, together with oratorical delivery. Two sections. 2 hours.

English 5a. Argumentation and Debating: (See the College of Arts and Sciences.) 4 hours.

Public Speaking I5a. Debating: (See College of Arts and Sciences.) 4 hours.

Public Speaking I6b. Debating: (See Coilege of Art and Sciences. 2 hours.

Public Speaking I7a. Effective Speaking: (See College of Arts and Sciences.) 2 hours.

Public Speaking I8b. Effective Speaking: (See College of Arts and Sciences.) 2 hours.

Public Speaking 5a. Advanced Public Speaking: (See College of Arts and Sciences.) 2 hours.

Public Speaking 6b. Advanced Public Speaking: (See College of Arts and Sciences.) 2 hours.

Public Speaking 7a. Dramatic Reading: A study in the oral

interpretation of the masterpieces of literature. Material will be selected which will serve the peculiar needs of each individual, and also serve as a repertoire. Prerequisites, Public Speaking 1 and 2. 2 hours.

Public Speaking 8b. Dramatic Reading: A continuation of Public Speaking 7. 2 hours.

Public Speaking 9a. Dramatic Presentation: The study and oral interpretation of modern dramas and of Shakespearian drama. Analysis of plot, characters, and incidents. Scenes from plays will be given in class, leading up to a final public presentation of an entire play. Prerequisites, Public Speaking 1 and 2. 2 hours.

Public Speaking 10b. Dramatic Presentation: A continuation of Public Speaking 9. 2 hours.

Students taking private lessons in expression should also enroll in one of the courses listed below.

Public Speaking 13a. Vocal Interpretation: An intensive study of selections from Browning, Tennyson, Dickens, etc. 2 hours.

Public Speaking 14b. Vocal Interpretation: A continuation of Public Speaking 13, together with a study of some of the masters of interpretation. 2 hours.

For Undergraduates and Graduates

Education 138b. Teacher's Course in Public Speaking: (See Public Speaking, College of Arts and Sciences.) 2 hours.

CLASSICAL ARCHAEOLOGY

Professor Paxton

Classical Archaeology 4b. Greek Sculpture: A course in the history, principles, and development of Greek sculpture. Tarbell's History of Greek Art must be in the hands of each member of the class, but the instruction will consist largely of formal and informal lectures, illustrated by photographs and the lantern. Required readings in Murray's The Sculptures of the Parthenon, Furtwaengler's Masterpieces of Greek Sculpture, Waldstein's Essays on the Art of Phidias. 4 hours.

ENGLISH

Professor Brewer

English 1a. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence. Daily and fortnightly themes. Required of all candidates for the bachelor's degree. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it.

The course is given in ten sections. Professor Brewer, Professor

Hadsell, Assistant Professor Brooke, Assistant Professor Church, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, and Miss Aughinbaugh. 4 hours.

English 2b. First Principles of English Composition: Long and short themes at stated intervals. A study of selected examples of nineteenth century prose. Lectures on the use of words. English 2 is a continuation of and presupposes English 1. Required of all candidates for the bachelor's degree.

The course is given in ten sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Assistant Professor Church, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, Miss Aughinbaugh.

4 hours.

GERMAN

Professor House

German 1. Beginning German· Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Given in three sections in the first semester and in one section in the second semester. Professor House, Associate Professor Voss and Dr. Steitz.

4 hours.

German 2. Beginning German: This is a continuation of elementary German as given in German 1. Prerequisite, German 1, or equivalent. Given in three sections in the second semester, and in one section in the first semester. Professor House, Associate Professor Voss, and Dr. Steitz 4 hours.

HISTORY

Professor Gittinger

History 159a. History of Greece: The oriental nations and Greece through the Persian invasions. The development and spread of Greek civilization to the Roman conquest. Professor Gittinger.

4 hours.

History 160b. History of Rome: A study of Roman origins and the development of Roman character. The growth of Roman power over the Mediterranean world and the foundation of the Empire. The first four centuries of the Christian era. Special attention will be given to the causes of the decay of ancient civilization. Professor Gittinger. 4 hours.

PHYSICAL EDUCATION

Director Soutar, Miss Revell

Courses for Men

Physical Education 1a: Consists of a definite "day's order" of exercises, supplemented by light apparatus work and indoor and outdoor games. Required of freshmen. 1 hour.

Physical Education 2b. A continuation of Physical Education 1. Required of freshmen. Mr. Soutar. 1 hour.

Courses for Women

Physical Education 51a. Consists of tactics, calisthenics, light apparatus work, games, and folk dances. Required of freshmen. Miss Revell. 1 hour.

Physical Education 52b. A continuation of Physical Education 51. Required of freshmen. Miss Revell. 1 hour.

PSYCHOLOGY

Professor Phelan

Philosophy 1a. General Psychology: This is a general introductory course aiming to give the student a survey of the main problems, principles, and methods of psychology, either as a part of a liberal education or as a preparation for professional study in education, medicine, or law. The following topics will be treated: sensation, attention, habits, association of ideas, perception, memory, imagination, conception, judgment, reasoning, instinct, feeling, emotion, volition, and personality. Lectures, recitations, assigned readings, reports, and experimental work. Pillsbury's Essentials of Psychology. Professor Phelan. 4 hours.

Philosophy 109b. Aesthetics: Preliminary study of the history of æsthetic theories from the Greeks to the present. Analysis and psychology. Reconstructive study of the theory of art, including the sense of beauty and the art impulse. Gordon's Aesthetics. Professor Phelan. 2 hours.

ROMANCE LANGUAGES

Professor Dora, Assistant Professor Gimeno

French 1a. Beginning French: Essentials of grammar, practice in colloquial French, prose composition, reading of easy texts. Special attention will be given to the French verb and to word order. Fraser and Squair's French Grammar, Super's French Reader, Talbot's Le

Francais et Sa Patrie, and Halevy's L'Abbe Constantin. Given in two sections. Professor Dora. 4 hours.

French 2b. Intermediate French: Systematic study of grammar, French conversation, sight reading, parallel work. Fraser and Squair's Grammar, Cameron's Contes de Daudet, Merimee's Carmen, Scribe et Legouve's Bataille de Dames. Given in two sections. Professor Dora. 4 hours.

ITALIAN

Italian Ia. Elementary Italian: Grammar, composition, and reading of modern authors. Mr. Gimeno. 4 hours.

Italian 2b. Elementary Italian: Continuation of Italian 1. Mr. Gimeno. 4 hours.

THE SCHOOL OF LAW

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

JULIEN CHARLES MONNET, A. M., LL. B.
Dean of the School of Law, Professor of Law.

HENRY HUBBARD FOSTER, A. B., LL. B.
Professor of Law.

*JOHN BEGG CHEADLE, A. B., LL. B.
Professor of Law.

VICTOR HENRY KULP, PH. B., J. D.
Professor of Law.

LYMAN P. WILSON, B. S., J. D.
Professor of Law.

JOSEPH WARREN MADDEN, A. B., J. D.
Professor of Law.

Special Lecturers

ROBERT LEE WILLIAMS, A. M., LL. D.
Governor and Ex-Chief Justice of the Supreme Court, Lecturer on the Oklahoma Constitution.

SAMUEL W. HAYES.
Ex-Chief Justice of the Supreme Court, Lecturer on Legal Ethics.

MATTHEW J. KANE.
Chief Justice of the Supreme Court.

HENRY MARSHALL FURMAN.
Justice of the Criminal Court of Appeals, Lecturer on Criminal Jurisprudence.

CHARLES B. AMES, A. B., LL. B.
Ex-Supreme Court Commissioner.

MALCOLM E. ROSSER, LL. B.
Ex-Supreme Court Commissioner.

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*On leave of absence, 1914-15.

CHARLES WEST, A. B.
Ex-Attorney General.

SAMUEL THOMAS BLEDSOE.
Of the Oklahoma Bar. Lecturer on Indian Land Titles.

J. H. KEATON, B. S., LL. B.
Ex-Judge District Court.

LLOYD A. ROLAND, A. B., LL. B.
Of the Oklahoma Bar. Lecturer on Oil and Gas Law.

HERBERT DELAVAN MASON, LL. B.
Of the Oklahoma Bar.

G. W. HENSHAW, LL. B.
Member of Oklahoma Corporation Commission.

H. H. ROGERS, B. S.
Of the Oklahoma Bar.

R. A. KLEINSCHMIDT, B. L., LL. B,
Of the Oklahoma Bar.

FRANK WELLS, LL. B.
Of the Oklahoma Bar.

THE SCHOOL OF LAW

The School of Law was organized in the fall of 1909 in response o a general demand that the university should provide opportunities and facilities for legal training equal to the best afforded elsewhere. Its aim is to inculcate a sound knowledge of the common law and equity, of English and American modifications in both substantive and adjective law, of constitutional law and federal procedure and of the statutes, decisions, and practice of the state of Oklahoma. It is now generally conceded that such a result can be attained more successfully in a law school than elsewhere. The busy lawyer finds little time for the systematic instruction of the student in his office. The result is that the study tends to become desultory and unprofitable. In a law school the student has the constant help and direction of a body of trained teachers devoting their time and thought to his welfare. He has the inspiration that comes from friendly rivalry with his fellow students in the class rooms, in the quiz clubs, moot courts, and practice courts. He has the advantage of a more extensive library and of encouragement and special assistance in original investigation.

That such is the view of lawyers and judges generally is evidenced by the fact that a large and constantly increasing majority of candidates now come to the bar through the medium of law schools. Much may be said for the practical possibilities of office training, but law schools are more and more attempting, and with increasing success, to supply their former deficiencies in this regard. It is also true that those defects were never as great as has sometimes been alleged; and while it is possible though inconvenient for the young lawyer to supply them, it is nearly impossible for him to supply, after beginning actual practice, the systematic knowledge of the fundamental principles of law which the law school gives him the opportunity to acquire.

INSTRUCTORS

The School of Law, except as to the courses given by the special non-resident lecturers, is conducted by instructors who give practically their whole time and attention to university work. It is certain that the best results can be obtained in no other way. This is confirmed by the experience of the leading law schools of the country, all of

which now place their work of instruction on this basis. The teaching of law is in itself a scientific vocation requiring all of one's energies.

METHODS OF INSTRUCTION

Instruction in the class room is by comment, quiz, and colloquy. It consists largely of the analysis and discussion of cases. Instead of placing before the student a set of legal principles which he is required to learn, the much more difficult task is assigned him of reading the actual opinions contained in the reports and ascertaining therefrom the law involved. He is then required to apply that law to other cases, both hypothetical and actual. In so doing he is both assisted and criticised by the instructor who guides and coordinates the discussion toward a definite end. It is believed that by this method the power of legal reasoning, discrimination, and generalization is most fully developed, and at the same time the student is obliged to exercise the same mental processes and follow the same methods of argument as those required by the skillful advocate. Copious references are continually made for extensive side reading, and students are constantly encouraged to use the library.

In the practice court, in the courses in civil procedure and criminal law and procedure, and elsewhere when deemed necessary, emphasis is laid on the law of this jurisdiction. The aim is to fit the student generally for practice in any state and to fit him especially for practice in the West and Southwest.

EXAMINATIONS

At the middle and end of each year careful examinations are given, designed to test the student's ability to apply his knowledge. Failures or conditions in more than one-third of the work carried will sever the student's connection with the school. It is within the discretion of the law faculty to reinstate such students on proper petition and showing. A student who receives a failure in any course must take the course over. All conditions received in either semester must be removed at examinations held for that purpose at the opening of the school the following September. Students should arrange in advance for such examinations, which will be given but once and which will not be given to students enrolling late. Third year students will be given an opportunity to remove their first semester conditions at the time of the regular second semester examinations at the end of the year. In order to pass such examinations for the removal of conditions the student is required to manifest a higher proficiency than is sufficient in the original examination. Students failing to take the reg-

ular examinations or to remove their conditions will receive the grade "F." No special examinations will be held.

ENROLLMENT

For information about enrollment, see "Method of Enrollment" under "General Information."

NEW LAW BUILDING

Monnet Hall, the new law building costing $125,000.00, is completed and has been occupied since the opening of the session in September, 1913. It is 132 feet long and 55 feet wide with additional 14 foot entrance projections on the east and west. It is built in solid Bedford stone, its architectural lines following in the main those of University Hall. It is centrally located overlooking the oval, and constitutes one of the wings of the permanent group of buildings of which University Hall is the center. It has three stories and a basement and contains every feature necessary for a modern law school. This building is one of unusual beauty, solidity, and convenience. It is fireproof throughout. This building together with the provision made by the governing authorities of the university for large additions to the law library, and the law recently enacted providing for the exchange of Oklahoma law books with other states for the benefit of the law school library, places the School of Law on an equal footing with the state university law schools of other leading states and assures its rapid development and prosperity.

LIBRARY

The law library, constantly growing, contains several thousand volumes. These books have been carefully selected and the list contains most of the essentials. Other installments will be procured from time to time, as it is the purpose of the school to build up rapidly a library that will answer all the purposes of legal study and investigation. The leading law journals are kept constantly on file. A member of the law faculty has general supervision of the library, and student assistant librarians are in charge to give needed information and maintain order. The library is open during the day and in the evening. Students in the School of Law also have access to the general university library, and have all the advantages and privileges of other students in the university.

Bulletin Board

A bulletin board is maintained on which all official notices are posted, and all such notices are considered personal notices to the student or students concerned.

SPECIAL LECTURES

Short courses of lectures will be delivered by members of the supreme court, criminal court of appeals, and by prominent judges, attorneys and state officials. These courses are required of first year students; second and third year students may attend them.

PRACTICE COURT

In addition to the courses in pleading and practice, and the practical suggestions given throughout the courses by the the regular instructors and the special lecturers, a practice court is maintained in order to afford the student an opportunity of acquainting himself with the regular sequence of steps in litigation and of learning by actual experience what actions or proceedings should be brought, how to bring them, and how to handle the case until its close. Students act as attorneys, sheriffs, clerks, parties, witnesses, jurors, etc., and every effort is made to reproduce the conditions of actual practice in the Oklahoma courts. This work is supplemented by lectures pointing out errors and discussing questions of procedure of a more general nature applicable also to other jurisdictions. The presiding instructor is an attorney of experience and the aim is to supply as far as possible an actual working knowledge of trial procedure so that a graduate on leaving the school will be prepared at once to enter upon all phases of the work of the profession.

Third year men act as leading counsel, second year men as junior counsel, and first year men as jurors, officers, etc. Such practice court work is required of all students, and first year men may be given one hour's credit each semester for this together with the courses of special lectures.

LITERARY SOCIETIES

Students are encouraged to take an active part in the law literary societies, and to organize quiz clubs and club courts for legal discussion. There are a number of law literary societies, club courts, and student bars that are very active and profitable organizations for practice in argumentation and the presentation and trial of questions of law.

PRIZES

American Law Book Company Prize: The American Law Book Company offers to a third year student a prize consisting of the first thirteen volumes of the Cyclopedia of Law and Procedure to be awarded at the discretion of the law faculty. This prize, valued at $97, the faculty has decided to award at the time of graduation to the most meritorious student in the third year class, taking into con-

sideration the entire course. The award will be based on grades in examinations, class-room proficiency, ability in logical and succinct statement, interest displayed in club courts and other law school activities, use of the library, and strength of character.

The Callaghan & Company Prize: Callaghan & Company, Law Publishers, of Chicago, offer the Cyclopedic Law Dictionary as an annual prize to the student in the second year class who attains the highest proficiency and the best general average for the year.

The Blackstone Institute Prize: The Blackstone Institute of Chicago offers Modern American Law, a fifteen volume legal encyclopedia, valued at $75, as an annual prize to the third year student presenting the best thesis on some local or special jurisdiction subject designated by the faculty.

For description of other prizes available to law students see scholarships and prizes, under General Information.

PHYSICAL TRAINING

All students in the School of Law, who have not had one year of college work, or work in some other law school entitling them to one year's advanced standing, are required to take physical training to the extent of two hours during their course under the direction of the physical director of the university. Such "hour" represents approximately three hours of exercise a week during a period of time equal to one semester. Students engaging in special athletic activities are with the consent of the physical director allowed to substitute these for the regular physical training. This rule with reference to physical training is believed to make for well-balanced educational development.

ADMISSION AND GRADUATION

THREE YEAR COURSE

The work of the School of Law extends through three college years. There are three classes: the First Year Class, Second Year Class, and Third Year Class. Lectures and recitations are held on five days in the week, principally in the usual morning hours. Students may enter at the beginning of either semester. Late registration should be avoided.

ADMISSION

Applicants for admission to the School of Law must be at least eighteen years of age and must present evidence of having completed fifteen units of acceptable entrance credit. A unit is the standard amount of work required in a secondary school subject given thirty-six weeks with five recitation periods a week of at least forty-five minutes each. Thus fifteen units represent an ordinary four years' high school course.

The following units are required for admission to the School of Law:

English	3 units
Mathematics	2 units
*Electives	10 units
Total	15 units

*A description of all work that may be offered to satisfy the required or elective units as well as a statement of the ways in which credit may be secured for work done in high school may be found in the university catalogue, under the head of "Admission."

SPECIAL STUDENTS

Applicants, not less than 21 years of age and not candidates for the degree, who do not possess the above educational qualifications for admission of regular students, may be admitted to the courses in the School of Law provided they can satisfy the dean that they are prepared to carry the work successfully. Such students will be expected to conform to the same requirements as to attendance and examination and will be entitled to the same privileges as regular stu-

dents. Certificates stating the branches completed and the standing attained will be given to such students who have been in residence for a semester.

Such special students who have completed the curriculum and have been in residence three years may be recommended for a degree by special action by the law faculty, provided that they have displayed unusual ability and scholarship.

ADVANCED STANDING

Applicants qualified to enter the School of Law as candidates for a degree, who have satisfactorily completed one or more years of resident work in a law school of good standing having a three years' course, will be given equivalent rank in this school upon presenting properly authenticated certificates of such work. The right is reserved to give credit only on examination. All persons who intend to apply for advanced standing under the above rule should forward or present their credentials to the dean at least one week before the opening of the particular session which they desire to attend.

Such certificate should show the length of time in semester hours given to each subject, the books used as the basis of instruction, the method of grading used in such school, the grades made by the applicant, and whether the school has a three years' course. Credit will never be given for more than two years' work done in other schools. No credit will be given for reading or work done elsewhere than in an approved law school.

GRADUATION

The degree of Bachelor of Laws (LL. B.) is conferred upon all regular students not less than 21 years of age who have completed the prescribed work of the course. This course requires three years for its completion and no student is allowed to graduate except after three years of actual residence, unless in case of admission to advanced standing, in which case he must likewise have spent sufficient time in some other acceptable law school having a three years' course, to amount to a total of three years when added to the time spent here. The time spent in residence at this law school must in every instance be at least one year. In exceptional cases the degree may be conferred on special students. See provisions as to special students.

LAW ELECTIVES—ADDITIONAL WORK

Under certain circumstances seniors in the College of Arts and Sciences may elect all or part of their last year's work in the School of Law in such a way as to enable them to secure the B. A., and the LL. B.

degrees in six years instead of the seven regularly required. The following regulation applies to such students together with all others pursuing courses in the School of Law, viz: No student in the School of Law who is taking the full course in law shall be allowed to take additional courses elsewhere at the same time except upon permission of the dean and petition to the faculty. No student shall be entitled to take such additional work as a matter of course, and no such petition will be granted unless he can convince the faculty that it will not decrease the amount of time spent upon his legal studies and that it will be for his best interest and the best interests of the School of Law. Students enrolled in the School of Law for more than half of the full law course shall likewise be entitled to take additional work elsewhere only on the above conditions.

ADMISSION TO BAR

Under statutory authority the Supreme Court of this state has prescribed and published rules governing admission to the bar. These rules require that the candidate must be of good moral character and over 21 years of age; and that he shall satisfactorily answer the written interrogatories propounded covering the subjects enumerated. These subjects are all included in the curriculum of the School of Law. As to educational qualifications and length of the period of legal study required, candidates are referred to the rules. Examinations are held at convenient intervals and are conducted by a regular commission of bar examiners duly appointed by the Supreme Court.

By a ruling of the State Bar Commission, graduates of the School of Law are admitted to the bar without examination. They may then be admitted on motion to practice law in the federal courts of this state.

EXPENSES

Tuition is free in the School of Law as in all other departments of the university. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

A fee of $5.00 for a student enterprise ticket will be collected from each student at the time of enrollment. This ticket entitles the student to admission to all lecture course numbers, debating, athletic, musical, oratorical, dramatic, and other general university affairs. The payment of this fee is not compulsory but it is expected that each student will purchase the ticket because of the many advantages accruing therefrom; it is necessary that every student buy one in order to make this plan of supporting student affairs a success. It is hoped,

therefore, that the loyalty of the students toward the general interests of the university will be such that there will be no requests for exemption from this payment.

BOARD, ROOMS, AND BOOKS

Board, including furnished rooms, can be had for from $4.00 to $6.00 a week. The average cost of living is as low in Norman as in any other town of its size in the state. Board alone costs from $3.00 to $4.50. Rooms for two may be secured for $6 to $14 a month.

The cost of books used in the School of Law is about $35 a year.

If further information is desired as to any of the matters set forth in this catalogue, inquiries should be addressed to

The Dean of the School of Law,
Norman, Oklahoma.

CURRICULUM

The hour which constitutes the unit of credit as used in this catalogue except with reference to physical training is understood to mean one lecture hour a week, or its equivalent, for one semester.

It is desired that every student who enters the School of Law shall take full and not partial work, unless the circumstances be exceptional. A member of the first year class will not be permitted to take any regular course of the second and third year, and a member of the second year class will not be permitted to take third year courses unless for special cause shown and then only by permission of the dean.

Instruction is so arranged as to present fundamental subjects first, followed by specialized subjects later.

FIRST YEAR SUBJECTS

First Semester

Elementary Law: This course is designed to give the student an initial general survey of the entire body of the law in order that he may more intelligently comprehend the work in the other courses. Robinson's Elementary Law. Professor Madden. 2 hours.

Contracts: Mutual assent; offer and acceptance; consideration; contracts under seal; rights of beneficiaries; rights of assignees; joint and several contracts; conditional contracts; illegality; impossibility; duress; discharge. Williston's Cases on Contracts. Professor Monnet. 4 hours.

Torts: Trespass to person and property; excuses for trespass; conversion; legal cause; negligence; duties of land owners; dangerous occupations; deceit; defamation; slander; libel; malice; malicious prosecution; inducing breach of duty; competition; strikes; boycotts; combinations. Ames and Smith's Cases on Torts. Professor Madden. 2 hours.

Property I: Distinction between real and personal property; personal property; transfer of rights; bailments; tenures; estates; seisin; statute of uses; natural rights; easements; covenants; rents; landlord and tenant; emblements; fixtures. Gray's Cases on Property, Vols. I and II. Professor Foster. 4 hours.

Special Lectures: Courses of lectures on a variety of subjects

will be given by special lecturers for which one hour's credit may be allowed, together with practice court services. 1 hour.

Second Semester

Contracts: Continuation of course outlined in the first semester. Williston's Cases on Contracts. Professor Monnet. 2 hours.

Common Law Procedure: Forms of action; motions and demurrers; defects in form and substance; defaults; dilatory pleas; confession and avoidance; cross demands; replications; further pleadings; amendments. A number of lectures in the course will also be given on equity pleading. Sunderland's Cases on Common Law Pleading. Professor Wilson. 2 hours.

Torts: Continuation of course outlined in the first semester. Professor Madden. 2 hours.

Criminal Law and Procedure: Criminal acts; attempts; consent; criminal intent; justification; parties; agency; accessories; jurisdiction; murder; manslaughter; larceny; burglary; other crimes; criminal procedure. Beale's Cases on Criminal Law, and the Oklahoma cases, penal statutes, and statutes of criminal procedure. Professor Foster. 4 hours.

Domestic Relations: Contract to marry; breach of promise; common law marriage; capacity; consent; husband and wife; wife's contracts; wife's property; wife's person; torts by each; divorce; grounds for granting and refusal; alimony; parent and child; maintenance; tort; legitimacy; infancy; contracts and torts; insanity; drunkeness; aliens. Woodruff's Cases on Domestic Relations. Professor Kulp. 2 hours.

Special Lectures: Continued as indicated in the first semester. 1 hour.

SECOND YEAR SUBJECTS

First Semester

Agency: Nature of relation; appointment; liabilities of principal; torts; crimes; admissions; liabilities of agent; parties to writings; undisclosed principal; obligation between principal and agent; delegation of agency; termination; ratification. Wambaugh's Cases on Agency. Professor Kulp. 2 hours.

Equity: Nature of jurisdiction; specific performance; affirmative contracts; negative; third persons; consequences of specific performance; partial performance; consideration; marketable title; statute of frauds; mistake; hardship; mutuality; specific reparation; waste; disturbance of easements; nuisance; monopoly rights. Ames' Cases in Equity Jurisdiction. Professor Monnet. 2 hours.

Evidence: Admissibility; relevancy; circumstantial; qualification;

impeachment; admission; real evidence; documents; hearsay rule; exceptions; dying declarations; against interest; pedigree; subscribing witness; regular entries; reputation; records; order of evidence; opinion; privileged communications; burden of proof; judicial notice. Wigmore's Cases on Evidence. Professor Wilson. 4 hours.

Property 2. Including Wills: Acquisition of real property inter vivos; statute of limitations; prescription; releases; surrenders; boundaries; estates created; easements created; covenants of title; execution of deeds; acquisition after death; wills; making revocation and republication; lapsed legacies; administration; payment of debts; marshalling. Gray's Cases on Property, Vols. III and IV. Professor Foster. 2 hours.

Mortgages: Legal mortgage; title theory; lien theory; equitable mortgages; absolute deed; conditional sale; reservation of title; after acquired property; subsequent advances; priority between mortgage liens; rights to possession; receipt of rents and profits; right to redeem; purchase of equity of redemption; clogging the equity of redemption; consolidation of mortgages. Wyman's Cases on Mortgages. Professor Monnet. 2 hours.

Bailments and Carriers: The nature of public service; the classes of occupations embraced; the peculiar obligations; to serve all with reasonable facilities, at a reasonable price and without discrimination; the special obligations of bailees and carriers. Wyman's Public Service Corporations. Professor Madden. 2 hours.

Second Semester

Sales: Sales of goods when something remains to be done; when nothing remains; goods not specified; subsequent appropriation; reservation of jus disponendi; C.O.D.; fraud; retention of possession; delivery; factor's liens; stoppage in transitu; warranty; statute of frauds. Williston's Cases on Sales. Professor Madden. 4 hours.

Code Pleading and Practice: One form; special preceedings; real party in interest; joinder of plaintiffs and defendants; petition; ultimate facts; union of causes of action; answer; new matter; equitable defenses; counterclaims; reply; demurrer. Hinton's Cases on Code Pleading and the Oklahoma statutes and decisions on civil procedure. Professor Wilson. 2 hours.

Equity: Continuation of course described in the first semester. Ames' Cases in Equity Jurisdiction. Professor Monnet. 2 hours.

Agency: Continuation of course described in the first semester. Wambaugh's Cases on Agency. Professor Kulp. 2 hours.

Property 2. Including Wills: Continuation of course described in the first semester. Professor Foster. 2 hours.

Suretyship: Kinds of suretyship; statute of frauds; surety's

defenses; surety's right to subrogation; indemnity; contribution; exoneration; creditor's right to surety's securities. Ames' Cases on Suretyship. Professor Monnet. 2 hours.

THIRD YEAR SUBJECTS

First Semester

Bills and Notes: Formal requisites; acceptance; indorsement; transfer; purchase for value without notice; overdue; extinguishment; obligations of parties; checks; diligence; presentment, dishonor, protest, notice; the negotiable instruments law. Ames' Cases on Bills and Notes. Professor Kulp. 4 hours.

Constitutional Law: Nature of the constitution; relation of the states to the federal government; departments of government; taxation; commerce; police power; bankruptcy; currency; implied powers; powers of the executive; the judicial department; checks and balances; government of the territories; state comity; civil rights; political privileges; protection of contracts and property; due process of law; the status of recently annexed island territory. Hall's Cases on Constitutional Law. Professor Foster. 2 hours.

Trusts: Nature and requisites; express, resulting, constructive, charitable; appointment of trustee; nature of cestui's interest; transfer by trustee or cestui; cestui's interest how affected by death, marriage, or bankruptcy of trustee or cestui; duties of trustee; removal; resignation; accounting. Ames' Cases on Trusts. Professor Madden. 2 hours.

Damages: Exemplary; liquidated; nominal; direct; consequential; avoidable; counsel fees; certainty; compensation; physical and mental suffering; aggravation and mitigation; value; interest; special rules in certain tort and contract actions. Mechem and Gilbert's Cases on Damages. Professor Kulp. 2 hours.

Practice Court: Drawing, criticising, and discussing pleadings; commencement of actions; issuance and service of process; motions; issues of law or demurrers; introduction of evidence; arguments of counsel; instructions to jury; verdict and judgment; motions for new trial; exceptions; appeal. Professor Wilson. 4 hours.

Second Semester

Corporations: Distinction between corporations and partnerships; disregarding the corporate fiction; formation of corporation, powers; what are corporate acts; de facto corporations; collateral attack; ultra vires; promoters; directors; rights of minority shareholder; creditors; watered stock; transfer; ownership by corporation of shares of its own or other corporate stock; validity of voting trusts. Canfield and Wormser's Cases on Corporations. Professor Kulp. 4 hours.

Conflict of Laws: Comity; territorial jurisdiction; domicile;

taxation; jurisdiction in rem and in personam; marriage; legitimacy and adoption; movables and immovables; marital property; intestate and testamentary succession; place of contracting; interpretation, effect, and discharge of contracts; administration of estates; wardships; judgments, their nature, obligation, and effect. Beale's Cases on Conflict of Laws, Shorter Selection. Professor Monnet. 2 hours.

Property 3: Illegal conditions and restraints; forfeiture and restraints on alienation; priority; fradulent conveyances; purchases for value; registration; effect of notice; conversion; election; joint ownership; conveyance by metes and bounds; curtesy and dower. Gray's Cases on Property, Vol. VI, and assigned topics. Professor Foster. 2 hours.

Partnership: Nature of a partnership; formation of partnership; firm name and good will; mutual rights and duties; actions between partners at law and in equity; powers and liability of partners; dissolution; debts; distribution of assets. Gilmore's Cases on Partnership. Professor Madden. 2 hours.

Practice Court: Continuation of the course outlined in the first semester and trial of cases. Professor Wilson. 4 hours.

THE SCHOOL OF MEDICINE

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

CURTIS RICHARD DAY, PH. G., M. D.
Dean of the School of Medicine, Professor of Pathology, Serology, and Clinical Microscopy.

EDWIN DEBARR, M. S., Ph. D.
Professor of Chemistry.

*HENRY HIGGINS LANE, M. A.
Professor of Zoology.

WALTER LEANDER CAPSHAW, M. D.
Professor of Anatomy.

*LOUIS ALVIN TURLEY, A. M.
Professor of Histology and Pathology

ARCHA KELLY WEST, M. D.
Professor of Medicine.

ROBERT MAYBURN HOWARD, M. D.
Associate Professor of Surgery.

EDMUND SHEPPARD FERGUSON, M. D.
Professor of Eye, Ear, Nose, and Throat Diseases.

JOHN WILLIAM RILEY, M. D.
Professor of Genito-Urinary Surgery.

HORACE REED, M. D.
Associate Professor of Surgery.

JOHN ARCHER HATCHETT, M. D.
Professor of Obstetrics and Gynecology.

ABRAHAM LINCOLN BLESH, M. D.
Associate Professor of Surgery.

LAUREN HAYNES BUXTON, M. D., LL. D.
Professor of Eye, Ear, Nose, and Throat Diseases.

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*On leave of absence, 1914-1915.

NOTE: For addresses see faculty list in general catalogue.

GAYFREE ELLISON, B. S., M. D.
Professor of Bacteriology.

EDWARD FRANCIS DAVIS, M. D.
Associate Professor of Eye, Ear, Nose, and Throat Diseases.

JOHN SMITH HARTFORD, M. D.
Associate Professor of Gynecology.

GEORGE ALTHOUSE LAMOTTE, B. L., M. D.
Associate Professor of Medicine.

LEWIS JEFFERSON MOORMAN, B. S., M. D.
Associate Professor of Medicine.

LEONARD BLAINE NICE, Ph. D.
Professor of Physiology.

LEA ARMISTEAD RIELY, A. M., M. D.
Associate Professor of Medicine.

HARRY COULTER TODD, M. A., M. D.
Associate Professor of Eye, Ear, Nose, and Throat Diseases.

ANTONIO DEBORD YOUNG, M. D.
Associate Professor of Nervous and Mental Diseases.

RICHARD GRAY SOUTAR, B. A.
Professor of Physical Education.

Assistant Professors

HOWARD STORM BROWNE, B. A., Ph. C., M. S.
Assistant Professor of Materia Medica.

SAMUEL ROBERT CUNNINGHAM, M. D.
Assistant Professor of Gynecology.

*CHARLES EARNEST HAMNER, M. D.
Assistant Professor of Bacteriology.

ROBERT LORD HULL, A. B., M. D.
Assistant Professor of Orthopedic Surgery.

JOHN FREDERICK KUHN, Ph. G., M. D.
Assistant Professor of Surgery.

EVERETT SAMUEL LAIN, M. D.
Assistant Professor of Dermatology, Electro-Therapy, and Radiography.

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*On leave of absence, 1914-15.

ROBERT ELMORE LOONEY, M. D.
Assistant Professor of Obstetrics.

JOSEPH THOMAS MARTIN, A. M., M. D.
Assistant Professor of Children's Diseases.

JOSEPH FIFE MESSENBAUGH, M. D.
Assistant Professor of Children's Diseases.

EDGAR ELMER RICE, A. B., M. D. (Shawnee.)
Assistant Professor of Gynecology.

MILLINGTON SMITH, M. D.
Assistant Professor of Surgery.

RALPH VERNON SMITH, M. D. (Tulsa.)
Assistant Professor of Surgery.

†FRANK BRUNER SORGATZ, M. D.
Assistant Professor of Medicine.

WILLIAM MERRITT TAYLOR, B. S., M. D.
Assistant Professor of Children's Diseases.

CURT OTTO VON WEDEL, JR., M. D.
Assistant Professor of Surgery.

LEIGH FESTUS WATSON, Ph. G., M. D.
Assistant Professor of Surgery.

ARTHUR WEAVER WHITE, M. A., M. D.
Assistant Professor of Medicine.

ARTHUR ANDERSON WILL, M. D.
Assistant Professor of Rectal Surgery.

WILLIAM JONES WALLACE, Ph. C., M. D.
Assistant Professor of Genito-Urinary Diseases.

Instructors

JOHN MOSBY ALFORD, M. D.
Instructor in Therapeutics.

†ANNETTE BOURBON COWLES, R. N.
Superintendent of the Hospital, with rank of Instructor.

FLOYD JACKSON BOLEND, Ph. C., M. D.
Instructor in Children's Diseases, and Hospital Anaesthetist.

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†Assistant Professor of Histology and Pathology for 1914-15.

Rex George Bolend, B. S., M. D.
Instructor in Medicine, and Hospital Anaesthetist.

Thomas Craig Burns, M. D.
Instructor in Nervous Diseases.

Charles Duncan Ferguson, M. D.
Instructor in Eye, Ear, Nose, and Throat Diseases.

William Alonzo Fowler, L. I., M. D.
Instructor in Obstetrics.

Andrew Merriman Young, M. D.
Instructor in Obstetrics.

Cyril Ebert Clymer, M. D.
Instructor in Surgery.

Casriel J. Fishman, Ph. C., B. S., M. D.
Instructor in Medicine.

George Hunter, M. D.
Instructor in Obstetrics.

Leila Edna Andrews, M. D.
Instructor in Medicine.

Herbert Victor Louis Sapper, B. S., B. A.
Instructor in Bacteriology.

John Arthur Reck, M. D.
Instructor in Gynecology.

‡Lucy Renette Hill, R. N.
Superintendent, University Hospital.

‡John Paine Torrey, M. D.
Instructor in Physical Diagnosis.

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†Resigned February 1, 1915.
‡From February 1, 1915.

THE SCHOOL OF MEDICINE

The first and second years of the School of Medicine were established at Norman in 1900. The third and fourth years were established at Oklahoma City in 1910. The curriculum covers four annual sessions of thirty-six weeks each. Of these, the first and second is conducted at Norman, and comprises work in the fundamental branches of anatomy, neurology, embryology, physiology, organic chemistry, physiological chemistry, pharmacology, bacteriology, pathology, and materia medica. The work of the third and fourth years is conducted in Oklahoma City, and includes instruction in the clinical branches of therapeutics, clinical pathology, medicine, surgery, obstetrics, and the special lines of practice.

The school is a member of the Association of American Medical Colleges and maintains strictly all of the rules and requirements of that organization.

REQUIREMENTS FOR ADMISSION

Applicants for admission to the School of Medicine must be of good moral character and at least eighteen years of age. Men and women are admitted on equal terms.

The scholarship requirements comprise as a minimum:

(1) Graduation from an accredited high school offering fifteen units.

The following table shows the 15 high school units required:

Subjects	Units
English	3
Algebra	1
Plane Geometry	1
History	1
Foreign Language (Latin preferred)	2
Physics	1
Electives	6
Total	15

*For complete description of subjects accepted for admission see General Catalogue under "Admission."

(2) The completion of one year of college work including a

year's work in physics, chemistry, biology, and a reading knowledge of at least one modern language besides English, preferably French or German.

In order to fulfill the requirement of one year of college work the student should take the following courses:

First Semester		Second Semester	
Course	Hours	Course	Hours
Chemistry 1	4	Chemistry 2	4
Botany 1	4	Zoology 2	4
Physics 1	4	Physics 2	4
*Modern Language	4	*Modern Language	4
Physical Training 1	1	Physical Training 2	1

*Students offering two units of modern language for admission should substitute English 1 and 2 for modern language.

Students who possess only the 15 units of secondary work required for admission to the School of Medicine may secure the year of college work conveniently in the College of Arts and Sciences of the University of Oklahoma.

Admission to the School of Medicine with conditions in more than two subjects is not permitted. Such conditions must be removed before entering upon the second year of the medical course.

BACHELOR OF SCIENCE COURSE IN MEDICINE

Students are advised to secure two years of college work before entering the School of Medicine. The medical examining boards of many states now require at least two years of college work in addition to a medical course as a prerequisite for a license to practice. The number of states making this requirement is rapidly increasing.

Students who have completed at least sixty academic hours in the College of Arts and Sciences may enter the School of Medicine and after completing the first two years' work, be recommended for the degree of Bachelor of Science (in Medicine) in the College of Arts and Sciences. Subjects given in the School of Medicine will not be counted in making up the sixty hours required in the College of Arts and Sciences.

In addition to satisfying the entrance requirements of the College of Arts and Sciences, the student must complete the prescribed work, the group electives, and the subjects prescribed for admission to the School of Medicine.

The following outline of courses will fulfill these requirements:

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
Chemistry 1	4	Chemistry 2	4
Modern Language	4	Modern Language	4
Botany 1	4	Zoology 2	4
Physical Training	1	Physical Training	1
	17		17

Second Year

Physics 1	4	Physics 2	4
History 1	4	Physiology 1	4
*Mathematics or Ancient Language	4	*Mathematics or Ancient Language	4
General Psychology	4	Experimental Psychology	4
Physical Training	1	Physical Training	1
	17		17

*Students offering four units of Latin or three and one-half units of Mathematics for admission may substitute modern language or other subjects.

**Under special conditions the student may be excused from completing the group electives by the dean of the College of Arts and Sciences.

ADMISSION TO ADVANCED STANDING

Advanced standing in the School of Medicine may be obtained only by transfer of credit previously earned in medical schools whose standards are equivalent to those of this university. Entrance examinations will not be given to any student to make up failures or conditions in medical subjects secured before entering this school. Credit for such subjects may be earned only by taking them over again in class.

Students from other medical schools whose standards are fully equivalent to those of this institution may receive credit for time spent and for work successfully completed in such institutions, provided it is equivalent to corresponding work in the medical course in this university.

Such a student should furnish, when he makes application for admission:

1. A statement of honorable dismissal from the medical school last attended.

2. An explicit statement in regard to his preliminary education

before beginning the study of medicine. This education must be equivalent to that required of the members of the class to which admission is desired.

3. Documentary evidence from previous medical college, (or colleges) showing time credit, and studies successfully completed, this latter statement setting forth the exact number of hours lecture and hours laboratory given to each subject.

The credit claimed in each subject must be passed upon by the dean of the School of Medicine for the third and fourth years, and by the committee on admission and advanced standing for the first and second years.

EXAMINATIONS AND CLASS STANDING

Each session is divided into two semesters of eighteen weeks each. Examinations are held at the end of the first semester during the first week of February, and at the end of the session during the first week of June. For subjects completed in either term the examination at the end of that term is final.

At least eighty per cent of the scheduled hours in any course for which a student is registered, must be attended in order to receive credit for the course.

If a student fails to take the examination at the regular scheduled time, without having been excused by the professor in charge, a condition in the subject will be given. Such a condition may be removed only by arrangement with the professor in charge.

Passing Grades

Students' grades in all courses are filed with the registrar and the records in his office are the official records of the university. The passing grades used are A, A minus, B, B minus, C, C minus.

Conditions and Failures

A student who fails to complete the work of any course will receive a mark of F, D, or I. "F" means failure. "D" and "I" both mean conditioned. "D" means conditioned because of poor quality of work for which no credit is granted except upon re-examination and no grade higher than a "C" can be given. "I" means that a good student with a class standing of "C minus", or better, has failed to complete some small portion of his assigned work. Instructors giving an "I" must state upon the reverse side of the report card the portion of the work incomplete.

Conditions of "D" or "I" must be removed within a year if credit for the work is desired. A mark of "F" is recorded for all "D's" not removed in this time.

A student who has failed in a required subject must, if possible,

register for it the first time it is given. A student failing in any course can not receive credit for it until it has been taken again in class.

A student with a failure in more than three courses should not enter the next higher class, but should do the entire year's work over.

Excessive Absences

Students receiving a mark of failure or condition in more than one-third of the work in which they are enrolled in any semester forfeit their connection with the university. It is within the discretion of the faculty to reinstate such students on proper petition and showing.

ENROLLMENT

No regular student will be permitted to register in the School of Medicine after October 15 of any year except by unanimous consent of the faculty.

The medical students who enroll at Norman for the first and second years will find a statement of the plan of enrollment in the general catalogue under "General Information."

Registration at Oklahoma City

Students of the third or the fourth year must consult with the dean and submit their credentials to him at Oklahoma City.

Expenses at Oklahoma City

As the work of the curriculum in the School of Medicine demands all the time and energy of the student, he should not attempt to earn any part of his expenses while attending this school.

Books should be bought only on the advice of the instructor, and only the latest editions, as the advance in the sciences is so rapid that an old medical book soon becomes practically useless.

FEES AND DEPOSITS

Tuition is free in all departments of the university. All students will be held responsible for damage to or loss of equipment and instruments, and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

In all laboratory courses students must pay the actual cost of material used. In some courses a fixed charge based upon the estimated cost of material is made and must be paid before beginning the work. In most laboratory courses a laboratory coupon book costing three dollars must be purchased by the student for each course and deposited with the instructor. From this book the cost of materials issued to the student will be taken at the time of issue. Such additional coupon books as may be necessary must be purchased from

time to time. Any unused portion of such laboratory coupon books will be refunded in cash at the end of the year, or when the student leaves the university, provided he notifies the financial clerk at the time of departure that he must withdraw; but no such refund will be made after the close of the fiscal year, July 1.

The fixed charges are as follows:

Anatomy 2	$15.00
Anatomy 3	10.00
Anatomy 4	5.00
Third Year Laboratory Fee	10.00
Fourth Year Laboratory Fee	10.00
Clinical Fee at Each Affiliated Hospital, per year	5.00
*Student Enterprise Ticket	5.00

*Students at Oklahoma City do not pay this.

Each student at Norman is required to pay a $2.00 library deposit which is refunded at the close of the school year after fines have been deducted.

In the following courses laboratory coupon books must be purchased, one for each course. The cost will vary for different students, but will be approximately as follows:

Anatomy 1	$ 2.00
Bacteriology 1, 101, each	3.00
Chemistry 124	10.00
Embryology 1	3.00
Histology 1	2.00
Pathology 1 and 2, each	3.00
Pharmacology 1	3.00
Pharmacy 7	5.00
Physiology 6 and 7, each	3.00

REQUIREMENTS FOR GRADUATION

A candidate for the degree of Doctor of Medicine (M. D.) must be twenty-one years of age, and of good moral character. He must have studied medicine for four years and must have received credit for at least four annual courses of medical instruction in four different calendar years at approved medical schools, of which the last annual course must have been studied in this school. At least forty-five months must have elapsed between the beginning of his first course of medical lectures and the date of graduation. He must have complied with all the rules and regulations of this school and must have paid all fees. He must have successfully completed all of the work required and have attended at least eighty per cent of the exercises in each annual course. He must have passed, suc-

cessfully, final examination, both written and practical, in all subjects taught in the senior year.

He must attend the graduating exercises and receive his diploma in person, unless excused for cause by special action of the faculty.

MEDICAL FACILITIES AT NORMAN

The medical facilities at Norman include the laboratories of chemistry and pharmacy with rooms for work in general, organic, and physiological chemistry, qualitative and quantitative analysis, pharmacy, and pharmacognosy. Medical laboratories with rooms for normal and pathological histology, bacteriology, materia medica, and physiology are also available in Science Hall. Embryology is given in the department of zoology. The anatomical building contains a large dissecting room and a laboratory for osteology, a preparation room, and a recitation room in which are the osteological collection, many of the anatomical charts and models, and the departmental library. The departmental library, intended for daily reference, is accessible at all times.

Oklahoma Hospital for Insane

The Oklahoma Hospital for the Insane is located at Norman, about two miles from the School of Medicine. There are seven hundred beds, and the daily census has shown a full quota of patients. The faculty and students have the privilege of studying there all forms of mental diseases and many rare conditions. There is also a weekly medical and surgical clinic for the special benefit of the advanced medical students.

CLINICAL FACILITIES AT OKLAHOMA CITY

Oklahoma City, with a population of over 75,000, offers excellent opportunities for clinical instruction. The city is well supplied with hospitals. A great deal of emergency work occurs besides the usual diseases incident to a city of this size. Clinical instruction is given wholly in small sections so that every student has opportunity for personal observation of cases shown.

School Building

The school building, formerly a private residence, is located at 317 East Fourth Street, and adjoins the State University Hospital. It is an imposing brick building of colonial style, standing on high ground. In it are suitable lecture rooms, the clinical laboratory, and the library. The library is open for the use of students throughout the day, and they are privileged to take out books for home reading according to the usual library rules.

University Hospital

The State University Hospital, with a capacity of sixty beds, was opened January 17, 1912. It is located in a central and easily accessible portion of the city, on the east side, in a quiet neighborhood, in an elevated section. It is arranged with separate wards for white and colored, male and female patients, and with private rooms. There are twenty-six ward beds and thirty-four private room beds. All of the ward beds are used for clinical purposes, and a majority of the private patients are entirely willing to be demonstrated before the class and are so used. The hospital has three modern, sanitary operating rooms, with the necessary sterilizing and wash-rooms, all equipped with the most up-to-date apparatus. Private entrance for students has been arranged so that they have ready access at all times to the wards and operating rooms without the necessity of passing through that portion of the building devoted to the private rooms. Students in rotation serve as history clerks and keep the records for all patients in the institution.

Free Dispensary

In the basement of the hospital is located the free dispensary, arranged with separate waiting rooms for white and colored patients, and having separate clinic rooms for the departments of eye, ear, nose, and throat; children's diseases; medical and nervous diseases; genito-urinary and skin diseases; and surgery. This dispensary is open daily, except Sundays, from one to three o'clock, and the students here do the work under the direction of the dispensary staff, rotating in sections through the whole dispensary service. Each student has twenty hours of actual work in each department, except medicine and surgery, in which he has forty hours each. Many clinics are held daily in the hospital, the arrangement being shown in the published schedule.

Maternity Hospital Advantages

The university has control of the clinics at the Holmes Home of Redeeming Love, the Nazarene Home and the city Lying-in Hospital. These hopitals furnish 150 obstetrical cases a year which are used for clinical purposes by the university.

Out-Patient Obstetrical Clinics

An out-patient obstetrical clinic has been organized which offers professional services in confinement cases at home. A dispensary station has been opened in the south side of town, in charge of a competent matron, where calls will be received and registered. Each case is attended by one of the attendant obstetricians and two students of the senior class.

St. Anthony's Hospital

St. Anthony's Hospital, located in the residence section, on the west side of the city, is owned by the Sisters of St. Francis. It is the largest hospital of its kind in the state, having 130 bed capacity. It is well arranged for student instruction, with three operating rooms and several demonstration rooms properly furnished, and large and convenient wards for both sexes.

The staff is composed exclusively of the members of the faculty of this school; teaching privileges have been graciously accorded by the Sisters, and clinics are regularly held in this institution.

SYNOPSIS OF COURSES

First Year

First Semester

		Lect. Hrs.	Lab. Hrs.
Anatomy 1	Osteology	16	64
Anatomy 2	Dissection	32	112
Histology 1	Normal Histology	32	112
Chemistry 121	Organic Chemistry	64	---

Second Semester

Anatomy 3	Dissection	32	112
Embryology 1	Medical Embryology	32	96
Chemistry 124	Physiological Chemistry	32	192

Second Year

First Semester

Anatomy 4	Cross Section, Relational Anatomy	32	112
Bacteriology 1	General Bacteriology	32	112
Physiology 6	Human Physiology	48	96
Materia Medica 6		64	---

Second Semester

Physiology 7	Human Physiology	48	96
Pharmacology 1	Pharmacology and Toxicology	32	96
Physical Diagnosis 1		--	32
Pathology 1 and 2	General Pathology	64	144
Pharmacy 7	Pharmacy Methods		64
Hygiene 1	Hygiene and Sanitation	64	---

Third Year

First Semester

Medicine 1	General Medicine	64	---
Medicine 5	Physical Diagnosis	16	64
Medicine 7	General Pediatrics	48	---
Medicine 9	Children's Diseases	16	---

		Lect. Hrs.	Lab. Hrs.
Medicine 19	Therapeutics	32	---
Medicine 28	Clinical Pathology	--	32
Surgery 1	Principles of Surgery	48	--
Surgery 3	Fractures and Dislocations	32	--
Surgery 11	Operative Surgery	16	--
Obstetrics 1		32	--
Obstetrics 3		16	--
Gynecology 1		48	--
Gynecology 3	Clinical Gynecology	--	32
Genito-Urinary Surgery 1		--	32
Skin and Venereal Diseases 1		32	--
Genito-Urinary Diseases 1		--	16
Pathology 3	Clinical Microscopy	--	80

SECOND SEMESTER

Medicine 2	General Medicine	64	--
Medicine 6	Physical Diagnosis	16	64
Medicine 8	General Pediatrics	48	--
Medicine 10	Children's Diseases	16	--
Medicine 20	Therapeutics	32	--
Medicine 22	Medical Jurisprudence	16	--
Medicine 29	Clinical Pathology	--	32
Surgery 2	Principles of Surgery	32	--
Surgery 4	Tumors	16	--
Surgery 12	Operative Surgery	16	--
Surgery 16	Minor Surgery, Bandaging	8	8
Obstetrics 2		16	--
Obstetrics 4		32	--
Obstetrics 5	Obstetrical Demonstrations	--	32
Gynecology 4	Clinical Gynecology	--	32
Genito-Urinary Diseases 2		16	26
Genito-Urinary Surgery 2		--	32
Skin and Venereal Diseases 2		--	26
Pathology 4	Clinical Microscopy	--	80

Fourth Year

FIRST SEMESTER

Medicine 3	Clinical Medicine	116	--
Medicine 11	Clinical Pediatrics	26	--
Medicine 13	Nervous & Mental Diseases	48	10
Medicine 23	Prescription Writing	16	--

		Lect. Hrs.	Lab. Hrs.
Medicine 21	Medical Ethics & Economics	16	--
Surgery 5	Surgical Diagnosis	16	--
Surgery 7	Regional Surgery	16	--
Surgery 9	Clinical Surgery	--	180
Surgery 13	Orthopedic Surgery	16	16
Surgery 15	Rectal Surgery	8	8
Gynecology 5	Clinical Gynecology	--	26
Eye Diseases 1		16	--
Eye Diseases 3	Clinic	--	16
Ear, Nose, and Throat Diseases 1		16	--
Ear, Nose, and Throat Diseases 3	Clinic	--	16
Pathology 5	Clinical Pathology	--	80
	SECOND SEMESTER		
Medicine 4	Clinical Medicine	--	116
Medicine 12	Clinical Pediatrics	--	26
Medicine 14	Nervous & Mental Diseases	48	10
Medicine 24	Prescription Writing	16	--
Medicine 26	Electro-Therapeutics	16	--
Medicine 27	Elec. Ther. and Radiog.	16	--
Surgery 6	Surgical Diagnosis	16	--
Surgery 8	Regional Surgery	32	--
Surgery 10	Clinical Surgery	--	180
Surgery 14	Orthopedic Surgery	16	16
Gynecology 6	Clinical Gynecology	--	26
Eye Diseases 2		16	--
Eye Diseases 4	Clinic	--	16
Ear, Nose, and Throat Diseases 2		16	--
Ear, Nose, and Throat Diseases 4	Clinic	--	16
Pathology 6	Clinical Pathology	--	80

SCHEDULE—FIRST YEAR—FIRST SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00						
9 00	Organic Chemistry		Organic Chemistry	Organic Chemistry	Organic Chemistry	
10 00	Histology	Histology		Histology	Histology	
11 00	Histology	Histology	Histology	Histology	Histology	
1 30	Dissection	Dissection	Osteology	Dissection		
2 30	Dissection	Dissection	Osteology	Dissection	Osteology	
3 30	Dissection	Dissection	Osteology	Dissection	Osteology	
4 30						

SCHEDULE—FIRST YEAR—SECOND SEMESTER

Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.
9 00	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.
10 00	Embryology	Embryology		Embryology	Embryology	Physlg. Chem.
11 00	Embryology	Embryology	Embryology		Embryology	Physlg. Chem.
1 30	Dissection	Dissection		Dissection		
2 30	Dissection	Dissection		Dissection		
3 30	Dissection	Dissection		Dissection		
4 30						

SCHEDULE—SECOND YEAR—FIRST SEMESTER

Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	Materia Medica		Materia Medica	Materia Medica	Materia Medica	
9 00	Physiology		Physiology	Physiology		
10 00	Bacteriology	Bacteriology		Bacteriology	Bacteriology	
11 00	Bacteriology	Bacteriology	Bacteriology	Bacteriology	Bacteriology	
1 30	Cross Section	Physiology Lab.	Cross Section	Physiology Laboratory	Cross Section	
2 30	Cross Section	Physiology Lab.	Cross Section	Physiology Lab.	Cross Section	
3 30	Cross Section	Physiology Lab.	Cross Section	Physiology Lab.	Cross Section	
4 30						

SCHEDULE—SECOND YEAR—SECOND SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	Pharmacology	Physiology	Pharmacology	Pharmacology	Physiology	Pharmacy Methods
9 00	Pharmacology	Physiology Lab.	Pharmacology	Pharmacology	Physiology Lab.	Pharmacy Methods
10 00	Pharmacology	Physiology Lab.		Pharmacology	Physiology Lab.	Pharmacy Methods
11 00	Physical Diagnosis	Physiology Lab.	Physiology	Physical Diagnosis	Physiology Lab.	Pharmacy Methods
1 30	Hygiene	Hygiene	Pathology	Hygiene	Hygiene	
2 30	Pathology	Pathology	Pathology	Pathology		
3 30	Pathology	Pathology	Pathology	Pathology		
4 30	Pathology	Pathology	Pathology	Pathology		

SCHEDULE—THIRD YEAR—FIRST SEMESTER

Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00						
9 00	Obstetrics	Physical Diagnosis	Genito-Urinary Surgery	Clinic Physical Diagnosis	Clinic Physical Diagnosis	Operative Surgery
10 00	Gynecology Clinic	Obstetrics	Gynecology Clinic	Obstetrics	Quiz Medicine	
11 00	Children's Diseases	Therapeutics	Children's Diseases	Therapeutics	Children's Diseases	
1 00	Clinical Microscopy	Clinical Microscopy	Clinical Microscopy	Clinical Microscopy	Clinical Microscopy	
2 00	Genito-Urinary Diseases	Skin and Venereal	Quiz Gynecology	Skin and Venereal		Clinics at Norman
3 00	Medicine	Surgery 3	Medicine	Surgery 3	Medicine	
4 00	Gynecology	Children's Diseases	Principles of Surg'y	Medical Jurisprudence		

SCHEDULE—THIRD YEAR—SECOND SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	Obstetrical Demonstration		G. U. Surgery	Clinic Physical Diagnosis	Clinic Physical Diagnosis	
9 00		Physical Diagnosis				Operative Sugery
10 00	Gynecology Clinic	Obstetrics	Gynecology Clinic	Obstetrics	Quiz Medicine	
11 00	Children's Dis.	Therapeutics	Children's Dis.	Therapeutics	Children's Dis.	
1 00	Clinical Microscopy	Clinical Microscopy	Clinical Microscopy	Clinical Microscopy	Clinical Microscopy	
2 00	Clinical G. U. Diseases	G. U. Diseases	Minor Surgery	Quiz Surgery	Skin Diseases	
3 00	Medicine	Principles of Surg'y	Medicine		Medicine	Clinics at Norman
4 00	Obstetrics	Children's Diseases	Surgery 4	Medical Jurisprudence		

SCHEDULE—FOURTH YEAR—FIRST SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00 9 00	Surgical Clinic	Surgical Clinic	Surgical Clinic	Surgical Clinic	Surgical Diagnosis Surgical Clinic	Surgical Clinic
10 00	Medical Clinic	Medical Clinic	Medical Clinic	Medical Clinic	Gynecology Clinic	Regional Surgery
11 00	Clinical Pathology	Clinical Pathology	Clinical Pathology	Clinical Pathology	Clinical Pathology	
1 00	Dispensary	Dispensary	Dispensary	Dispensary	Dispensary	
2 00	Eye Clinic	Orthopedic Surgery	Ear, Nose, Throat Clinic	Clinic Children's Diseases	Orthopedic Clinic	Clinics at Norman
3 00	Prescription Writing	Nervous Diseases	Clinical Medicine	Medical Ethics	Medical Clinic	
4 00	Rectal Surgery	Eye Diseases	Nervous Diseases	Ear, Nose, and Throat Diseases	Nervous Diseases	

SCHEDULE—FOURTH YEAR—SECOND SEMESTER

Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	Surgical Clinic	Surgical Clinic	Surgical Clinic	Surgical Clinic	Surgical Diagnosis	Surgical Clinic
9 00					Surgical Clinic	
10 00	Medical Clinic	Medical Clinic	Medical Clinic	Medical Clinic	Gynecology Clinic	Regional Surgery
11 00	Clinical Pathology	Clinical Pathology	Clinical Pathology	Clinical Pathology	Clinical Pathology	
1 00	Dispensary	Dispensary	Dispensary	Dispensary	Dispensary	
2 00	Eye Clinic	Nervous Diseases	Clinical Medicine	Cl. Children's Dis.	Medical Clinic	Clinics at Norman
3 00	Prescription Writing	Orthopedic Surgery	Clinic Ear, Nose and Throat	Medical Ethics	Orthopedic Surg'y	
4 00	Regional Surgery	Eye Diseases	Nervous Diseases	Ear, Nose and Throat	Nervous Diseases	
7 00					Electro-Therapeutics	

DESCRIPTION OF COURSES

Courses marked a are first semester courses. Courses marked b are second semester courses.

ANATOMY

Professor Capshaw

Anatomy 1a. Osteology: A complete study of the human skeleton. Each student is furnished a set of bones for individual study and drawings. Text, Cunningham. Lectures, recitations, and laboratory. Deposit required. Five periods.

Anatomy 2a. Dissection of the Upper Half of the Human Body: A body will be furnished to each two students. Text, Cunningham. Quizzes and laboratory work. Fee, $15.00. Nine periods.

Anatomy 3b. Dissection of Lower Half of the Body: A continuation of Anatomy 2. Fee, $10.00. Nine periods.

Anatomy 4a. Cross Section, and Relational Anatomy Including the Brain: Serial sections of the human body will be studied and drawings of each section made. A thorough study of the gross anatomy of the brain with drawings made of sections cut in different planes. Text, Cunningham. Lectures, recitations, and laboratory. Fee, $5.00. Nine periods.

BACTERIOLOGY

Professor Ellison

Bacteriology 1a. General Bacteriology: This course includes a detailed study of the more important forms of pathogenic and non-pathogenic organisms, with methods of their isolation from body fluids, water, foods, etc., and their relation to human life. Lectures, laboratory, assigned readings, and reports. Muir and Ritchie, and Heinneman. Lectures and laboratory. Deposit required. Nine periods.

Bacteriology 101b. State and Municipal Laboratory Methods: Laboratory course with lectures on the methods of water, soil, food, air, body-fluids, and sewage examinations; the standardization of disinfectants; laboratory diagnosis. Prerequisite, Bacteriology 1. Deposit required. 4 hours.

CHEMISTRY

Professor DeBarr

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisite, Chemistry 5. Perkin and Kipping's Organic Chemistry. Four periods.

Chemistry 124b. Physiological Chemistry; Physiological analysis. Lectures and laboratory. Deposit required. Fourteen periods.

EMBRYOLOGY

Professor Lane

Embryology 1b. Medical Embryology: A study of oogenesis, spermatogenesis, maturation, fertilization, cleavage, formation of the germ-layers, and organogeny. Laboratory work upon the essentials of organogeny in the chick, pig, and man. For medical students only. Lectures, recitations, and laboratory. Deposit required. Eight periods.

HISTOLOGY

Professor Turley, Assistant Professor Sorgatz

Histology 1b. Normal Histology: A study of the microscopic anatomy of animal tissues and organs; the principles of cytology and splanchnology with special emphasis on the human tissues and organs; and histologic technique. Deposit required. Lectures and laboratory. Nine periods.

HYGIENE

Professor Ellison

Hygiene 1b. Principles of Hygiene and Sanitation: A course of lectures and demonstrations with assigned readings, taking up the subjects of ventilation, heating, food, digestion, disinfection, contagious diseases, water supplies, sewage, and sanitation, with methods of control and suppression of epidemics. Four periods.

MATERIA MEDICA

Assistant Professor Browne

Materia Medica 6a. A study of the official drugs and other approved remedies, with reference to origin, preparation, dosage, and physiological action. The symptoms and treatment of poisoning, the writing of prescriptions, the dispensing and administration of remedies are considered. Medical Latin is included. Lectures and assigned readings. Four periods.

PATHOLOGY

Professor Turley, Professor Day, Assistant Professor Sorgatz

Pathology Ib. General Pathology: A study of the abnormal functioning of the various organs of the body, the conditions producing diseases, the efforts of the body to overcome diseases and regenerate diseased tissues, disturbances in development, circulatory disturbances, retrogressive processes, progressive processes, inflammation, and secondary diseases. This course is the basis of advanced special, clinical, and diagnostic pathology. Lectures, recitations, and demonstrations showing gross and microscopic lesions in the human tissues. Prerequisite, Histology 1. Texts, Ziegler, and Mallory and Wright. Professor Turley. Deposit required. Four periods.

Pathology 2b. General Pathology; Laboratory work to accompany Pathology 1. A study with the microscope of pathological tissues and practice in the methods of diagnosis of diseased tissues. Professor Turley. Deposit required. Nine periods.

Pathology 3a. Clinical Microscopy: The principles of pathology are reviewed, especially with a view to practical application to laboratory diagnosis. Blood, urine, feces, gastric contents, sputum, etc., are examined. Methods of collecting materials and the simpler practical clinical methods of analysis are studied. It is the object of this course to prepare students for the thorough understanding of the laboratory aids in diagnosis in later courses. Five periods a week. Professor Day.

Pathology 4b. Clinical Microscopy: Continuation of Pathology 3. Five periods a week. Professor Day.

Pathology 5a. Clinical Pathology: This course consists of practical work in the clinical laboratory. Specimens from the hospital and dispensary patients are studied and discussed by the students. Further work in clinical methods is undertaken and autopsies, when available, are observed. The theories of serum work are taught and the Wassermann test and the Noguchi Reaction demonstrated in a practical way. Special attention is paid to the interpretation of the laboratory findings and to the relation of these findings to the clinical observations in the patient. Five periods a week. Professor Day.

Pathology 6b. Clinical Pathology: Continuation of Pathology 5. Five periods a week. Professor Day.

PHARMACOLOGY

Professor Nice

Pharmacology Ib. Pharmacology and Toxicology: Laboratory

studies of the physiologic action of human remedies as verified by experiments. Deposit required. Eight periods.

PHARMACY

Assistant Professor Browne

Pharmacy 7b. Pharmaceutical Methods: A course in elementary pharmacy for medical students. The student makes preparations of each pharmaceutical type contained in the United States Pharmacopoeia, as pills, powders, waters, decoctions, solutions, tinctures, emulsions, and liniments. Practice in prescription dispensing, and the making of stupes, poultices, plasters, and medicated baths. Recitations and laboratory work. Deposit required. Assistant Professor Browne. Four periods.

PHYSICAL DIAGNOSIS

Professor Ellison, Dr. Torrey

Physical Diagnosis Ib. Diagnosis of the normal body preparatory to the larger course given in the third year. Lectures on the theory of physical diagnosis. The class will be practiced in small sections in actual examinations of normal bodies. Two periods.

PHYSIOLOGY

Professor Nice

Physiology 6a. General Physiology: A study of the functions of muscles, nerves, the central nervous system, and the special senses. Three lectures and two laboratory periods of three hours each per week; also eight special demonstrations of which the following are examples: motor localization in the cerebral cortex, the activity of a decerebrate pigeon and the activity of a spinal mammal. Required of medical students. Deposit required. Nine periods.

Physiology 7b. General Physiology: A study of the circulatory system, lymphatic system, body fluids and their regulation, digestive system, digestion, absorption, secretion, excretion, metabolism respiration, animal heat and its regulation. Three lectures and two laboratory periods of three hours each per week; also more than twenty special demonstrations of which the following are types: the function of the depressor nerve, the action of secretin and enterokinase, absorption from liver lymph channels. Required of medical students. Deposit required. Nine periods.

MEDICINE

Professor West, Associate Professors LaMotte, Moorman, Riely, Young; Assistant Professors Martin, Messenbaugh, Sorgatz, Taylor, White; Dr. Burns, Dr. Fishman, Dr. Alford, Dr. F. J. Bolend, Dr. R. G. Bolend, Dr. Andrews.

Medicine 1a. General Medicine: The course is prefaced by the history of the development of medical science. Special attention will be given to the new discoveries in medicine during the past twenty-five years, and the application of these discoveries to the prevention and cure of diseases. The whole subject of medicine is divided into three classes: infectious diseases, diseases of special organs, diseases due to faulty metabolism. Three lectures a week and one quiz. Dr. West, Dr. Fishman.

Medicine 2b. General Medicine: A continuation of Medicine 1. Three lectures a week and one quiz. Dr. West, Dr. Fishman.

Medicine 3a. Clinical Medicine; This course consists chiefly of bedside clinics. After eliciting the history and making the physical examination, the tentative diagnosis is made and discussed, special emphasis being placed on the essential characteristics of the disease in question. This is followed by a differential diagnosis and discussion of the varieties and special symptoms with reference to prognosis. Careful consideration is also given to the proper treatment of each case demonstrated.

A weekly clinical lecture by the case teaching method is given. Case histories are given out and written reports on diagnosis, prognosis and treatment, with full discussion, are required of each student. These are then discussed in class. Clinics are held twice a week at the bedside. Students in small groups are required to take a full history, make a careful physical examination and all necessary laboratory tests for diagnosis. This work is done before the class meets to study the case. The students' mistakes are then publicly noted and corrected and the entire class is given an opportunity to verify the principal findings in the examinations. Opportunity is given to watch the effects of treatment adopted in each case. Each student is required also to spend twenty periods in the medical division of the dispensary, where his work in this important aid for diagnosis is reviewed by the members of the staff. Six periods a week and twenty periods of dispensary work. Dr. LaMotte, Dr. Riely, Dr. White, Dr. Martin.

Medicine 4b. Clinical Medicine: A continuation of Medicine 3. Six periods a week and twenty periods of dispensary work. Dr. LaMotte, Dr. Riely, Dr. White, Dr. Martin.

Medicine 5a. Physical Diagnosis: By actual practice on the

normal subject, each student is required to become familiar with the fundamental methods employed in physical examination, and by these methods to determine the position, relation, and topography of the various organs of the body. Particular attention is given to the development of proper technic and of proper appreciation of the importance of a thorough, systematic examination in each case. In addition to the demonstration of instructive cases before the class, each student is required to make examinations, the teacher seeing that all signs and symptoms are noted. One lecture a week and four periods of clinical work. Dr. Moorman, Dr. White.

Medicine 6b. Physical Diagnosis: Continuation of Medicine 5. One lecture a week and four periods of clinical work. Dr. Moorman, Dr. White.

Medicine 7a. General Pediatrics: This is a didactic course consisting of lectures, recitations, and quizzes. The course embraces diseases of the new born, infant feeding, diseases of the gastro-intestinal and respiratory tracts, dietetics, diseases of nutrition, diseases of the nervous system, and therapeutics for infants and children. Three periods a week. Dr. Taylor, Dr. Andrews.

Medicine 8b. General Pediatrics: Continuation of Medicine 7. Three periods a week. Dr. Taylor, Dr. Andrews.

Medicine 9a. Acute Infectious Diseases of Children: Symptoms and methods of treating. One period a week. Dr. Messenbaugh.

Medicine 10b. Acute Infectious Diseases of Children: A continuation of Medicine 9. One period a week. Dr. Messenbaugh.

Medicine 11a. Clinical Pediatrics: The children's clinic is held one period a week. Each student is required to spend ten periods in the division of children's diseases in the dispensary where he has practical charge of the cases under the direction of an instructor. Dr. Taylor.

Medicine 12b. Clinical Pediatrics: A continuation of Medicine 11. One period a week and ten periods of dispensary work. Dr. Taylor.

Medicine 13a. Nervous and Mental Diseases: This course is designed to meet the requirements of the general practitioner. It includes both lectures and clinics. It begins with a general review of the anatomy and physiology of the nervous system. Then follows the general pathology of nervous diseases, and the neuroses. The latter part of the course is devoted to the study of derangements of the mind. Three periods a week and ten periods of dispensary work. Dr. Young, Dr. Burns.

Medicine 14b. Nervous and Mental Diseases: A continu-

ation of Medicine 13. Three periods a week and ten periods of dispensary work. Dr. Young, Dr. Burns.

Medicine 19a. Therapeutics: In this course the student is taught not only pharmaco-therapy, but also the fundamental principles of vaccine and serum therapy, mechanotherapy, hydrotherapy, climatotherapy, and psychotherapy. Two periods a week. Dr. Alford.

Medicine 20b. Therapeutics: A continuation of Medicine 19. Two periods a week. Dr. Alford.

Medicine 21a. Medical Ethics and Economics: A discussion of the ethics and economics of the profession. One period a week. Dr. West.

Medicine 22b. Medical Jurisprudence: A discussion of the legal status of the physician. One period a week. Dr. Messenbaugh.

Medicine 23a. Prescription Writing: Practice in prescription writing. One period a week. Dr. Fishman.

Medicine 24b. Prescription Writing: A continuation of Medicine 23. One period a week. Dr. Fishman.

Medicine 25a. Diseases of the Blood, Lymph, and Ductless Glands: This course consists of didactic lectures. One period a week. Dr. West.

Medicine 26b. Electro-Therapeutics: One period.

Medicine 27b. Electro-Therapeutics and Radiography: The fundamentals of electricity as applied to therapeutics are given in an explicit and practical way by lectures and clinics. The aids given by the use of the galvanic, faradic, static, and high-frequency currents in so far as they have proven of greatest value will be demonstrated. The very important though limited use of the X-Ray as a therapeutic agent will be dwelt upon, with due precautions as to its handling. Radiographing will be taught and demonstrated in such manner that students shall have a good working knowledge for future development and interpretation. Martin's Practical Electro-Therapeutics and X-Ray Therapy. One period a week. Dr. Lain.

Medicine 28a. Clinical Pathology: Two periods.

Medicine 29b. Clinical Pathology: Two periods.

SURGERY

Professor Riley, Associate Professors Reed, Howard, Blesh; Assistant Professors Hull, Kuhn, Lain, M. Smith, R. V. Smith, von Wedel, Watson, Will; Dr. Clymer.

Surgery is taught in the recitation room, at the bedside, in the dispensary, at the hospital clinics and by lectures. In the third year the work is largely didactic instruction. In the fourth year the work is given in regional surgery and the special branches.

Surgery 1a. Principles of Surgery: The principles of surgery

will be taught by lectures and recitations. The course covers surgical pathology, the process of inflammation and repair of tissues, injuries of the soft parts, bones and joints, necrosis, and important surgical diseases. Two lectures a week and one quiz. Dr. Blesh, Dr. R. V. Smith.

Surgery 2b. Principles of Surgery: Continuation of Surgery 1. One lecture a week and one quiz. Dr. Blesh, Dr. R. V. Smith.

Surgery 3a. Fractures and Dislocations: A full series of didactic lectures illustrated by specimens and charts will be given on fractures and dislocations. Two periods. Dr. Blesh.

Surgery 4b. Tumors: A course of lectures on tumors, their characteristics, pathology, and differential diagnosis. One period a week. Dr. Reed. 1 hour.

Surgery 5a. Surgical Diagnosis: This course is devoted to surgical methods of diagnosis. Special emphasis is laid upon differentiation. One period a week. Dr. Reed.

Surgery 6b. Surgical Diagnosis: A continuation of Surgery 5. One period a week. Dr. Reed.

Surgery 7a. Regional Surgery: Regional surgery will include surgery of the head, neck, thorax, abdomen, extremities, and blood vessels. One period a week. Dr. Howard.

Surgery 8b. Regional Surgery; A continuation of Surgery 7. Two periods a week. Dr. Howard.

Surgery 9a. Clinical Surgery: Daily instruction, consisting of clinics, clinical lectures, and demonstrations. The student is required to take case histories, assist in examination, and collect all data of value in arriving at a diagnosis. He is required to familiarize himself with the methods of preparation for operation, and to follow closely the post-operative course and after-treatment of the patient. In the operating room the clinician takes up little time with operative procedures as applied to operations, but lays great stress upon the indications for and the results of those procedures. As the object of this course is to train skillful general practitioners rather than specialists, emphasis is given to the subjects of etiology, pathology, symptomatology, and diagnosis. Twenty hours of work in the surgical department of the dispensary is also required of each student. Here the student has the actual care of the cases and does all the work of examination, diagnosis, and treatment under the supervision and direction of the instructor. Ten periods a week, twenty periods of dispensary work. Dr. Reed, Dr. Blesh, Dr. Howard, Dr. M. Smith, Dr. Kuhn.

Surgery 10b. Clinical Surgery: A continuation of Surgery 9.

Ten periods a week, and twenty periods of dispensary work. Dr. Reed, Dr. Blesh, Dr. Howard, Dr. Kuhn, Dr. M. Smith.

Surgery 11a. Operative Surgery: In this course the student performs on the cadaver all the minor and major operations, approximately seventy in number. One period a week. Dr. Watson, Dr. Von Wedel.

Surgery 12b. Operative Surgery: In this course the dog is used in order to familiarize the student with the handling of living tissues, the control of hemorrhages, the use of instruments and sutures under a rigid aseptic technic. Because of the many advantages of local anaesthesia it is used in the majority of operations, both major and minor. One period a week. Dr. Watson, Dr. Von Wedel.

Surgery 13a. Orthopedic Surgery: Instruction in this subject consists of lectures, recitations, and clinics. Besides lectures descriptive of the diseases leading to deformities, all of the important conditions are demonstrated in the clinic. The mechanical principles involved in the correction of deformities are fully discussed and the appliances and methods of application are demonstrated. Two periods a week. Dr. Hull.

Surgery 14b. Orthopedic Surgery: Continuation of Surgery 13. Two periods a week. Dr. Hull.

Surgery 15a. Rectal Surgery: In didactic lectures and clinical work, diseases of the sigmoid, rectum, and anus will be covered. The special anatomy, physiology, and embryology of the lower bowel will be reviewed and instruments for examination will be demonstrated. The more common diseases seen in general practice, such as the inflammatory diseases, malignant and non-maligant growths, will be studied. The latter part of the course will be devoted to operations, didactic and local anaesthesia being demonstrated. One period a week. Dr. Will.

Surgery 16b. Minor Surgery and Bandaging: The course in minor surgery includes lectures and practical discussions on the surgery the general practitioner sees in his office with special reference to minor injuries, the prevention of infection, the use of antiseptics, etc. Bandaging is demonstrated and individual instruction is given on the living subject. The course includes the use of plaster. One period a week. Dr. Von Wedel.

Surgery 17a. Anaesthetics: A special course in anaesthetics will be given to seniors. Instruction in this course, treating especially of the choice and administration of anaesthetics, will consist of lectures, clinical demonstrations and supervision of the administration of anaesthetics by the students themselves. Each senior student, under the supervision of the instructor, will administer an anaesthetic in at least six cases before graduating. Dr. F. J. Boland, Dr. R. G. Boland.

OBSTETRICS AND GYNECOLOGY

Professor Hatchett; Associate Professor Hartford; Assistant Professors Cunningham, Looney, Rice; Dr. Fowler, Dr. Young, Dr. Hunter, Dr. Reck

Obstetrics

Obstetrics Ia. The didactic work is given throughout the junior year and the clinical work chiefly in the senior year. Didactic lectures begin with the anatomy of the pelvis and the female generative organs in connection with the function of reproduction. A thorough course is given in embryology, tracing the changes in the ovum after fertilization and the development of the fetus. Ample time is devoted to the anomalies and the diseases of the foetal appendages. The physiology and diagnosis of pregnancy and the physiology and management of labor and the puerperium are treated fully. Two periods a week. Dr. Fowler.

Obstetrics 2b: A continuation of Obstetrics 1. One period a week. Dr. Fowler.

Obstetrics 3a: Pathological pregnancy, labor, and puerperium, and the diseases of the fetus are fully covered, with special reference to the complications of pregnancy, the management of difficult labor, postpartum hemorrhage, and puerperal infections. Operative obstetrics and the physiology and pathology of the new born infant are also fully covered. One period a week. Dr. Hatchett.

Obstetrics 4b. A continuation of Obstetrics 3. Two periods a week. Dr. Hatchett.

Obstetrics 5b. A thorough course of clinical demonstrations with the manikin is conducted by the clinical lecturer, in which the students are individually practiced. Clinics are held in the State University Hospital and teaching privileges have been accorded by the "Holmes Home of Redeeming Love", in the Nazarene home and in the City Maternity Hospital. An out-patient clinical department has been organized which offers treatment in the homes of those who so desire. Each senior student is required to attend at least six cases of labor under the supervision of an instructor during the year. The clinical material in the three maternity hospitals and the out-patient obstetrical department furnish abundant material to meet this requirement. Two periods a week. Dr. Looney.

Gynecology

Gynecology Ia. The course treats of the physiology of the reproductive organs, etiology, symptoms, diagnosis, and treatment of

medical and surgical diseases of women. Two lectures a week and one quiz. Dr. Hartford, Dr. Reck.

Gynecology 3a. Clinical Gynecology: Methods of examination, diagnosis, traumatism, and uterine deviations. Two periods a week. Dr. Hartford, Dr. Cunningham.

Gynecology 4b. Clinical Gynecology: A continuation of Gynecology 3. Two periods a week. Dr. Hartford, Dr. Cunningham.

Gynecology 5a. Clinical Gynecology: Operative gynecology. Each student must also do ten periods of work in the gynecological division of the dispensary. One period a week and ten periods of dispensary work. Dr. Cunningham.

Gynecology 6b. Clinical Gynecology: A continuation of Gynecology 5. One period a week and ten periods of dispensary work. Dr. Cunningham.

EYE, EAR, NOSE, AND THROAT DISEASES

Professors E. S. Ferguson, Buxton; Associate Professors Davis, Todd; Dr. C. Ferguson

Eye Diseases

Eye Diseases 1a. Anatomy and Physiology of the Eye: Models, charts, and anatomical specimens will be used to acquain- the student with the relation of the eye to the other parts of the head. One period a week. Dr. Buxton.

Eye Diseases 2b. Diseases of the Eye: This course will give special attention to the more common kinds of eye diseases met by the general practitioner. The students will be taught how to use the ophthalmoscope and will be given some practical instruction in refraction and correction of ocular errors. One period a week. Dr. E. S. Ferguson.

Eye Diseases 3a. Clinic in Eye Diseases: Clinical lectures will be given as well as instruction, in which the methods of examination and diagnosis are demonstrated on the living subjects. Students will assist at operations and whenever possible follow the cases during convalescence. One period a week. Dr. E. S. Ferguson, Dr. Buxton.

Eye Diseases 4b. Clinic in Eye Diseases: Continuation of Eye Diseases 3. One period a week. Dr. E. S. Ferguson, Dr. Buxton.

Ear, Nose, and Throat Diseases

Ear, Nose, and Throat Diseases 1a. Anatomy and Physiology of the Ear, Nose, and Throat: This course will cover in detail the anatomy, physiology, and pathology of the ear, nose, and throat.

The object of this course is to give the students a good working knowlege of the diseases of these structures commonly met in general practice. One period a week. Dr. Davis.

Ear, Nose, and Throat Diseases 2b. A continuation of Ear, Nose, and Throat Diseases 1. One period a week. Dr. Davis.

Ear, Nose, and Throat Diseases 3a. Clinic in Ear, Nose, and Throat Diseases: Practical instruction will be given in the medical and surgical treatment of diseases of the ear, nose, and throat, and each student will be granted an opportunity to examine the patients personally, and to follow up the cases throughout their entire treatment. One period a week. Dr. Todd.

Ear, Nose, and Throat Diseases 4b. Clinic in Ear, Nose, and Throat Diseases: Continuation of Ear, Nose, and Throat Diseases 3. One period a week. Dr. Todd.

GENITO-URINARY, SKIN, AND VENEREAL DISEASES

Professors Riley, Day; Associate Professors Lain, Wallace

Skin and Venereal Diseases Ia. Lectures on skin and venereal diseases. Two periods a week during the first semester. Dr. Day, Dr. Lain.

Skin and Venereal Diseases 2b. Clinic in skin and venereal diseases. One period a week and ten periods of dispensary work. Dr. Lain.

Genito-Urinary Surgery Ia: Clinic in genito-urinary surgery. Two periods a week. Dr. Riley.

Genito-Urinary Surgery 2b; Clinics in genito-urinary surgery. Two periods a week. Dr. Riley.

Genito-Urinary Diseases Ia; One period a week. Dr. Wallace.

Genito-Urinary Diseases 2b: Genito-urinary diseases. Two periods a week, and ten periods of dispensary work. Dr. Day, Dr. Wallace.

TRAINING SCHOOL FOR NURSES

The university offers at the State University Hospital in Oklahoma City, in connection with the School of Medicine, a three years' course of training in nursing upon the satisfactory completion of which a university diploma will be conferred, with the title of Graduate Nurse. This course is open only to women.

The State University Hospital is duly registered as a training school for nurses and accepted as such by the Oklahoma State Board for examination and registration of nurses. A nurse who has received her certificate according to the provisions of this board shall be styled and known as a "Registered Nurse."

It is the aim of the school to fit a body of intelligent young

women for one of the noblest, if not the noblest, professions open to women, to provide the city and the state with trained nurses of the highest standard, and to provide skilled workers to be co-laborers with the physician in caring for the sick and afflicted.

The profession of nursing cannot have ideals too high, or intelligence and culture too great, for it demands and commands the highest and best that can be put into it.

Admission

Applicants for admission to the school must possess good health and good moral character. Single women between twenty and thirty years of age are preferred. The minimum educational requirement is seven units as follows; but high school graduates and women of superior education and culture, who are otherwise qualified, are preferred.

Subject	units
English	2
Algebra	1
History	1
Latin	1
Electives	2
Total	7

For complete explanation of subjects required for admission see general catalogue under "Admission."

The number of applicants admitted will be limited to the needs of the hospital. When vacancies occur, women who cannot meet fully the educational requirements but who possess in marked degree other qualifications for efficiency, may be received at the discretion of the dean of the School of Medicine.

Upon the approval of the superintendent of the hospital, candidates will be received for a probationary term of three months. At the end of the probationary term, if services and examinations have been satisfactory, probationers will be admitted as pupil nurses after signing an agreement to remain in the school for three years, including probationary term, subject to its rules and regulations. They will be given an allowance of $5.00 a month during the probationary term, $8.00 a month during the remainder of the first year, $10.00 a month during the second year, and $12.00 a month during the third year. This allowance is to cover the cost of uniforms and other necessary expenses of the period of training.

In illness all student nurses are cared for gratuitously, but time lost through this or any other cause must be made up at the end of the term.

Plan of Instruction

The lectures and class work are given by different members of the faculty of the School of Medicine and by the superintendent. The general plan of instruction (subject to variations) is as follows:

The first three months are devoted to a course of preliminary study and practice covering theory and practice of nursing (elementary), elementary bacteriology, household economy and serving of foods, hospital ethics. Classes and demonstrations are held during the entire preliminary course, in addition to which the students are taught the practical part of nursing work and are made familiar with the various appliances and utensils used in nursing.

The object of the preliminary course is to provide the student, before she is brought into contact with the patient, with some of the fundamental knowledge upon which nursing depends and without which she is unprepared for the practical work. At the end of the probation period those accepted as regular pupils in the school are placed on duty in the wards of the hospital for further work and study.

COURSE OF STUDIES

First Year

Practical Work

Practical work of preliminary course as previously outlined, and in addition:

Medical nursing.

Including the nervous and the insane; fevers (non-contagious) and all the general medical affections of men and women.

Surgical nursing: (Including gynecology and orthopedics.)

The practical work of this year is supplemented by clinics and demonstrations.

Night duty is given.

Theoretical Work

Preliminary nursing as previously outlined, and in addition:

Principles of nursing.

Fever nursing, including contagions.

Study of drugs and their administration.

Reviews and examinations.

Second Year

Practical Work

Operating room experience.

Service in dispensary.

Special nursing.

Obstetrical nursing.

Two or three months of night duty are given in the second year.

Theoretical Work

Massage.

Study of drugs and their administration, continued.

Obstetrical nursing.

Anatomy and physiology.

Clinics and lectures.

Reviews and examinations.

Third Year

Practical Work

Special nursing.

Nursing sick children.

Diet, kitchen experience, including the modification of milk.

Executive work (for pupils who show fitness.)

In charge of wards.

One or two months of night duty are given in the third year.

Theoretical Work

Dietetics.

Lectures on special nursing subjects.

Lectures on subjects allied to nursing.

Ethics of private nursing.

NOTE: In both theory and practice, variation from the above as to time and order may be made whenever necessary.

Lecture and class work includes: lectures on special nursing subjects; ethics of private nursing; nursing sick children; reviews and examinations.

An affiliation has been formed with the State Hospital for the Insane, whereby an exchange of senior nurses may be made for a three months' period. This will offer to nurses of the Training School, who may wish to make a specialty of insane and nervous cases, an opportunity for special training in a high class institution devoted exclusively to these maladies.

The pupil nurse who has availed herself of the above opportunities for work and study, who has acquired concise, systematic, and clear methods of expression, should be able to fill the responsible position of "Registered Nurse."

GRADUATE WORK FOR NURSES

The State University Hospital offers to a limited number of nurses, graduated from recognized schools, a three months course in surgical, gynecological, and operating-room work and the technique of clinical pathology, as examination of urine, blood, etc.

In addition to the lectures given by the attending surgeons and pathologist, and practical work, a small salary with board will be given. At the end of the term a certificate will be given. For further information apply to the Superintendent of the Hospital, 325 E. Fourth Street, Oklahoma City.

THE SCHOOL OF PHARMACY

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

CHARLES HOWARD STOCKING, Ph. C., B. S.
Dean of the School of Pharmacy, Professor of Pharmacy.

EDWIN DEBARR, Ph. D.
Professor of Chemistry, Director of the School of Chemical Engineering, Vice-President of the University.

ALBERT HEALD VANVLEET, Ph. D.
Professor of Biology, Dean of the Graduate School.

JAMES WELLINGS STURGIS, Ph. D.
Professor of Latin.

*SAMUEL WATSON REAVES, A. M.
Professor of Mathematics.

GUY YANDALL WILLIAMS, Ph. D.
Professor of Physical Chemistry.

THEODORE HAMPTON BREWER, M. A.
Professor of English Literature.

LUCILE DORA, M. A.
Professor of the Romance Languages and Literatures.

HOWARD STORM BROWNE, B. A., Ph. C., M. S.
Assistant Professor of Materia Medica.

CHARLES HENRY TAYLOR, M. S.
Professor of Geology, Director of the School of Mining Geology.

WILLIAM PETER HASEMAN, Ph. D.
Professor of Physics.

*ROY TEMPLE HOUSE, A. M.
Professor of German.

GAYFREE ELLISON, B. S., M. D.
Professor of Bacteriology.

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*On leave of absence, 1914-15.

RICHARD GRAY SOUTAR, B. A.
Professor of Physical Education.

LLOYD BURGESS CURTIS, B. S.
Assistant Professor of Spanish.

EARLE SELLERS PORTER, A. M.
Assistant Professor of Chemistry.

KENNETH POTTER MONROE.
Instructor in Chemistry.

THE SCHOOL OF PHARMACY

The School of Pharmacy, organized in 1893, is an integral part of the University of Oklahoma. It was the first school added to the university after the organization of the College of Arts and Sciences, and since its organization it has maintained a steady growth. The school offers thorough and practical courses in all the various subjects pertaining to pharmacy, and prepares the student to pursue any of the various branches of the profession.

Pharmacy is the science and art of preparing, compounding, preserving, and dispensing medicines, whether reference is made to the profession in the sense of either retail or wholesale relationship. The necessity for technical training in this subject is apparent to all who are seeking to prepare themselves for the more responsible positions, open only to those who are thoroughly trained as prescriptionists, manufacturing pharmacists, or industrial and analytical chemists.

It is the aim of the School of Pharmacy to co-operate with the pharmacists of the state in their efforts to elevate and maintain the profession of pharmacy.

Registration as Pharmacists

No person can legally practice pharmacy in Oklahoma unless he is registered by the State Board of Pharmacy. The board meets regularly on the first Tuesday and Wednesday of January, of April, of July, and of October, to examine candidates who desire to obtain a license to practice pharmacy in the state. Graduates from the School of Pharmacy of the university who have had one year of experience outside of the school course, are registered without examination on application, payment of fee, and presentation of their diplomas.

Three Plans of Work

In accordance with the requirements of the New York State Department of Education and the recommendations of the American Conference of Pharmaceutical Faculties, this school offers three separate plans of work. The two years' plan comprises four semesters of four and one-half months each. It equips the student for practical work with the minimum preparation. The three years' plan comprises six semesters of four and one-half months each and is designed more especially for those who wish to enter the commercial field of phar-

maceutical chemistry or food and drug analysis. It also enables the pharmacist to strengthen his professional relations by the practice of urinary, bacteriological, and toxicological analysis for the physician. The four years' plan includes academic as well as professional courses, and is designed to give the student a liberal education as well as to fit him for work demanding a broader scientific and professional knowledge than may be acquired in a shorter time.

DEGREES

The degree of Graduate in Pharmacy (Ph. G.) will be conferred upon a student who completes the plan of study outlined to cover two years with a total of sixty-six hours of credit, two hours of which must consist of physical training.

The degree of Pharmaceutical Chemist (Ph. C.) will be conferred upon a student who completes the plan of study outlined to cover three years with a total of ninety-nine hours of credit, such work to include the courses necessary to the completion of the two years' plan.

The degree of Bachelor of Science in Pharmacy (B. S., in Pharmacy) will be conferred upon a student who completes the plan of study outlined to cover four years with a total of not less than 124 hours of credit, such work to include the courses necessary to the completion of the three years' plan.

ADMISSION

Applicants for admission to the School of Pharmacy should be at least seventeen years of age. Admission may be either by certificate or by examination. Graduates of affiliated high schools may present their certificates to the registrar on or before matriculation, as full credit will be given for all approved courses taken in such schools. Credentials from other high schools of recognized standing should be filed with the committee on admission at least two weeks before the opening of school. All applicants who do not hold such certificates or credentials should present themselves for examination.

Admission may be either to first year work without condition, to work as an unclassified student, or to advanced standing.

Admission to First Year

The requirements for admission are usually stated in units. A unit is the standard amount of work required in a secondary school subject, given five times a week, thirty-six weeks, with recitation periods not less than forty minutes in length. Seven units properly selected will admit to the two-years' plan, and fifteen units properly

selected, to the three years' plan and the four-years' plan. The units required are given below:

Subjects	Two Year	Three Year and Four Year
English	2	3
Algebra	1	1
Plane Geometry		1
History	1	1
*Latin	1	2
Physics		1
Electives	2	6
Total	7	15

*Students who enter without Latin will be required to enroll in the course of elementary Latin which is included in the first semester's work for the Ph. G. degree.

A more detailed statement of the university's plan of admission will be found in the general catalogue, under the head of "Admission."

Unclassified Students

Applicants for admission, twenty-one or more years of age, not candidates for a degree, who wish to take certain courses in the School of Pharmacy without first bringing up the regular entrance requirements, are admitted as unclassified students and permitted to take such courses upon giving satisfactory evidence that they are prepared to carry them to advantage. If they subsequently desire to become candidates for a degree, they must make up the entrance and all other requirements for the degree they may select.

Advanced Standing

Advanced standing will be given for work properly done in a school having equal entrance and other requirements. Application must be made for advanced standing at matriculation.

Tuition

Tuition is free in all departments of the university. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

In laboratory courses students must pay the actual cost of material used in accordance with the statement under the heading "Fees and Deposits," under General Information in the general catalogue.

LABORATORIES

Chemical and Pharmaceutical Laboratories

The laboratories comprise well equipped rooms in the Science Hall as follows:

Two general lecture rooms.
A laboratory of general chemistry.
Two laboratories of quantitive and organic chemistry.
A research laboratory.
Three private laboratories and offices.
A laboratory for water and food analysis.
A dispensing room.
A balance room.
A general pharmacy laboratory.
A pharmacognosy and prescription room.
A private pharmacy room and office.
An instrument room.

PHARMACY AS A PROFESSION

Never before have opportunities in pharmacy been so great and never in its history has this profession rendered a more important service to mankind. The many advances in the science of medicine and the enactment of important laws both state and national, regulating the manufacture and sale of drugs and medicines have stimulated a cooperative advancement along pharmaceutical lines. The opportunities that are open to those who would keep pace with these advancements are innumerable. Analytical and research chemists with a knowledge of pharmacy have no difficulty in obtaining remunerative and attractive positions in manufacturing plants and in municipal, state, and national laboratories. The practicing pharmacist in every community occupies a position of importance and responsibility surrounded with opportunities limited only by his own ability as determined by his native talent and the extent to which he has been trained in the science.

PURE FOOD AND DRUG COURSES

Since the passage of the National Food and Drug Act of June 30, 1906, there has developed an increasing need for trained chemical, pharmaceutical, and microscopical analysts to fill positions for the United States government, in state public health, pure food and drug laboratories, for large manufacturing houses and dealers in drugs and chemicals.

The State Pure Food and Drug and Public Health Laboratories are located at the university. The School of Pharmacy is very closely as-

sociated with this department and students of the school have free access to the laboratories and may elect courses in food, drug, and sanitary water analysis. The laboratories are splendidly equipped with polariscopes, extraction apparatus, centrifuges, and all other instruments and equipment needed in carrying on the various phases of the work.

Graduates of the three year and the four year courses in pharmacy are eligible for positions as food, drug, and sanitary analysts for the government, the various states, and commercial houses. Students in the School of Pharmacy are especially prepared to pursue this class of work since pharmacy plays as large a part in the analytical work as does chemistry.

PHYSICAL TRAINING

All students in the School of Pharmacy, except those who are admitted with one or more years of advanced standing or with a year of college work, are required to take physical training to the extent of two hours during their course. Such "hour" represents approximately three hours of exercise a week during one semester.

The systematic participation in athletic sports, such as football, baseball, tennis, basket ball, boxing, fencing, wrestling, and track athletics under the direction of the physical director or coach is regarded as fulfilling these requirements.

PRIZES

The John Barbour Senior Prizes: Recommendation to membership in the American Pharmaceutical Association with one year's dues to each of two senior students in the School of Pharmacy receiving the highest grades in all courses pursued during their senior year.

The John Barbour Junior Prize: A leather bound indexed copy of the National Standard Dispensatory to the junior student who receives the best average grade in all branches.

Howard Storm Browne Prize: Recommendation to membership in the American Pharmaceutical Association with one year's dues to the student receiving the best grade in Materia Medica 4.

SPECIAL LECTURES

Lectures on the subject of pharmaceutical jurisprudence are delivered by members of the faculty of the School of Law. Each lecturer being a recognized authority on the subject assigned to him, the students of the School of Pharmacy enjoy an unusual privilege in their study of law in its relation to the pharmacist.

Other lectures on subjects of interest to the profession are given from time to time by out-of-town speakers.

STOCKONIAN SOCIETY

This society has been organized in order to bring into closer relation the School of Pharmacy at the University of Oklahoma and the students and faculty of the School of Pharmacy, to upbuild the school, to promote the mutual welfare of the students and faculty, and to perpetuate friendship and good fellowship with one another.

All students enrolled in the School of Pharmacy are eligible to membership. Meetings are held on the first and third Tuesday nights of each month during the college year. An address is usually given by an outside speaker upon a subject of special interest to pharmacy students. In addition to this part of the program the students obtain valuable drill in parliamentary practice, and discuss current topics relative to pharmacy.

READING TABLE

The reading table of the School of Pharmacy is well supplied with a large number of the best drug journals published. Among them are the following named journals: Bulletin of Pharmacy; Western Druggist; Pharmaceutical Era; Pacific Drug Review; Meyer Brothers Druggist; McPikes Bi-Monthly; Western Drug Record; Northwestern Druggist; Midland Druggist and Pharmaceutical Review; The Apothecary; The Spatula; The Southern Pharmaceutical Journal; The Western Drug Record; N. A. R. D. notes.

OUTLINE OF WORK

TWO YEAR PLAN

Outline of Courses Leading to the Degree of Graduate in Pharmacy

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Pharmacy 1	4	Pharmacy 2	4
Chemistry 6	6	Chemistry 4	4
Botany 3	4	Botany 4	4
*Elementary Latin	3	Pharmacy 6	2
Physical Training 1	1	Pharmaceutical Latin	2
		Physical Training 2	1
	18		17

Second Year

First Semester		Second Semester	
Pharmacy 3	4	Pharmacy 8	3
Chemistry 5	4	Materia Medica 3	4
Chemistry 121	4	Chemistry 125	2
Materia Medica 4	4	Chemistry 122	4
		Materia Medica 5	4
	16		17

THREE YEAR PLAN

Outline of Courses Leading to the Degree of Pharmaceutical Chemist

The first two years under this plan must include all work necessary to receive the degree of Graduate in Pharmacy and the following courses in addition:

Third Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Pharmacy 9	4	Materia Medica 7	4
Foreign Language	4	Foreign Language	4
Bacteriology 5	2	Hygiene 1	4
Chemistry 105	4	Chemistry 126	5
Urinalysis	2		
	16		17

*Students offering Latin for admission will be excused from the course.

FOUR YEAR PLAN

The four year plan includes all the work above outlined under the three year plan, and one additional year, preferably identical with the first years work in the College of Arts and Sciences to be taken before entering the work in pharmacy. This year's work is as follows:

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
German	4	German	4
Physics 1	4	Physics 2	4
Mathematics 2 or 5	4	Mathematics 9	4
Physical Training 1	1	Physical Training 2	1
	17		17

Those who take the three years in pharmacy first, must secure thirty additional hours of credit from courses approved by the dean of the School of Pharmacy.

In the above courses of instruction, it is the aim of the faculty to follow as nearly as practicable the outlines of courses given in the Pharmaceutical Syllabus as recommended by the national committee.

DESCRIPTION OF COURSES

NOTE: First semester courses are marked a. Second semester courses are marked b. Courses with no letter attached are given both semester.

BACTERIOLOGY

Professor Ellison

Bacteriology 5a. Pharmaceutical Bacteriology: A study of the fundamental principles of bacteriology, the relation of bacteria to disease, the study of the specific microorganisms of disease; immunity and serum therapy; the preparation and standardization of bacterines, serums, and antitoxins; and disinfectants. This course is designed especially for students of pharmacy. Lectures, assigned readings, and demonstrations. Professor Ellison. 2 hours.

BOTANY

Professor VanVleet

Botany 3a. Pharmaceutical Botany: A study of the general morphology and histology of plants. For students of pharmacy only. Fee, $1.00. Lectures, text, and laboratory. 4 hours.

Botany 4b. Pharmaceutical Botany: Instruction in this course is divided into two periods. Period 1 extends from the beginning of the semester to the first of April. Period 2 includes the remainder of the semester. Fee, $1.00.

CHEMISTRY

Professor DeBarr, Professor Williams, Assistant Professor Browne, Assistant Professor Porter, Mr. Monroe

Chemistry 6a. General Chemistry for Pharmacy Students; A general introductory course consisting of three lectures and three laboratory periods of three hours each per week. The work of this course embraces the consideration of the general principles of chemistry, the study of the nonmetals and certain inorganic preparations. Deposit required. Assistant Professor Porter. 6 hours.

Chemistry 4. Qualitative Analysis: Analysis of unknowns. Laboratory and lectures. Prerequisite, Chemistry 6. Deposit required. Mr. Monroe. 4 hours.

Chemistry 5. Quantitative Analysis: Volumetric and gravimetric estimations. Lectures and laboratory. Prerequisite, Chemistry

4. Deposit required. First semester, Assistant Professor Porter. Second semester, Professor Williams. 4 hours.

Chemistry 10a. Urinalysis: For pharmacy students only. The chemical and microscopical analysis of normal and pathological urine. Quantitative and qualitative estimations are made. One lecture and three hours laboratory per week. Assistant Professor Browne. 2 hours.

Chemistry 105b. Water Analysis: A study of sanitary, sewage, and mineral waters. Prerequisite, Chemistry 5. Deposit required. Professor DeBarr. 4 hours.

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisite, Chemistry 5. Professor DeBarr. 4 hours.

Chemistry 122b. Organic Analysis: Analysis of alkaloids and organic acids. Examination of fat and oils. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 4 hours.

Chemistry 125b. Toxicology: A study of poisons. Lectures and laboratory. This course embraces a study of the symptoms, post-mortem appearances, antidotes attendant upon poisoning, and the recovery of the poisons from the various organs of the body. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 2 hours.

Chemistry 126. Chemistry and Composition of Food Products: A study of food-stuffs and their adulteration. Lectures, recitations, and laboratory. Prerequisite, Chemistry 5 and 121. A student may take this course more than once and receive credit each time, provided the work is not duplicated. Deposit required. Professor DeBarr and Assistant Professor Porter. 5 hours.

ENGLISH

Professor Brewer

English 1a. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence. Daily and fortnightly themes. Required of all candidates for the bachelor's degree. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it.

The course is given in ten sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Assistant Professor Church, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, and Miss Aughinbaugh. 4 hours.

English 2b. First Principles of English Composition: Long and short themes at stated intervals. A study of selected examples of nineteenth century prose. Lectures on the use of words. English

2 is a continuation of and presupposes English 1. Required of all candidates for the bachelor's degree.

The course is given in ten sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Assistant Professor Church, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, Miss Aughinbaugh.

4 hours.

GEOLOGY

Professor Taylor

Geology 102a. Crystallography and Mineralogy: A study of the laws of crystallization, and the classification of crystals. The physical properties, chemical composition, and mode of occurrence of minerals. Prerequisite, Chemistry 6. Deposit required. 3 hours.

GERMAN

Professor House

German 1. Beginning German: Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Given in three sections in the first semester and in one section in the second semester. Professor House, Associate Professor Voss and Dr. Steitz.

4 hours.

German 2. Beginning German: This is a continuation of elementary German as given in German 1. Prerequisite, German 1, or equivalent. Given in three sections in the second semester, and in one section in the first semester. Professor House, Associate Professor Voss, and Dr. Steitz 4 hours.

German 9a. Scientific German: The aim of this course is to afford students of the sciences an acquaintance with technical scientific nomenclature and style. Reading of German scientific texts and articles in current technical periodicals will be required of students. Prerequisite, German 1 and 2. Wait's German Scientific Reader. Dr. Steitz. 2 hours.

German 10b. Scientific German: A continuation of German 9. Reading of German scientific texts (Goeschen Sammlung) and articles in current technical periodicals. Dr. Steitz. 2 hours.

HYGIENE

Professor Ellison

Hygiene 1b. Principles of Hygiene and Sanitation: A course of lectures and demonstrations with assigned readings, taking up the

subjects of ventilation, heating, food, digestion, disinfection, contagious diseases, water supplies, sewage, and sanitation, with methods of control and suppression of epidemics. Required of students of medicine. 4 hours.

LATIN

Professor Sturgis

Latin 10a. Elementary Latin: The chief aim of this course is to acquaint the student with the Latin forms and with those fundamental principles of syntax which will enable him to translate Latin in the courses that he may take later. 3 hours.

Latin 11b. Pharmaceutical Latin: The aim of this course is to translate into clear and coherent English such Latin as will give the student a wide vocabulary in pharmaceutical terms. 2 hours.

MATERIA MEDICA

Assistant Professor Browne

Materia Medica 3b. This course deals in a practical way with the physiological functions of the various organs of the body together with the physiological action of typical drugs on the various organs. Lectures and assigned readings. 4 hours.

Materia Medica 4a. Pharmacognosy: A study of the official and more important non-official vegetable and animal drugs with special reference to growth, identification, collection, preparation for the market, medicinal constituents, official preparations, and dose. Lectures and recitations; Culbreth's Materia Medica and Pharmacology. Fee, $1.00. 4 hours.

Materia Medica 5b. Pharmacology and Therapeutics: This course deals with the Pharmaco and Therapy dynamics of the more important drugs, both official and non-official. Lectures and laboratory. Deposit required. 4 hours.

Materia Medica 6a. A study of the official drugs and other approved remedies, with reference to origin, preparation, dosage, and physiological action. The symptoms and treatment of poisoning, the writing of prescriptions, the dispensing and administration of remedies are considered. Medical Latin is included. Lectures and assigned readings. 4 hours.

Materia Medical 7b. Inorganic Materia Medica: A study of the official and more important unofficial inorganic drugs. Their physical and chemical properties, source, methods of identification, use, and dose. Lectures, recitations, and demonstrations. 4 hours.

MATHEMATICS

Professor Reaves

Mathematics 2a. Algebra: A careful review of the fundamental principles followed by a study of exponents and radicals, theory of quadratics, graphs, systems of equations, complex numbers, ratio and proportion, progressions, logarithms, binomial theorem. Prerequisite, one year of algebra and one year of plane geometry. Associate Professor Duval. 4 hours.

Mathematics 5. College Algebra: Embracing the subjects of imaginaries, variables and limits, permutations and combinations, binomial theorem, series, undetermined coefficients, logarithms, determinants, and theory of equations. This course presupposes a minimum of one and one-half years in algebra. Six sections first semester and one section second semester. Professor Reaves, Associate Professor Duval. 4 hours.

Mathematics 9. Trigonometry: Derivation and use of formulas, solution of triangles, trigonometric equations and identities, graphs of functions, computations of logarithms, DeMoivre's theorem. Prerequisite, Mathematics 2 or 5. One section first semester and four sections second semester. Professor Reaves, Associate Professor Duval, Dr. Gossard, Mr. Meacham. 4 hours.

PHARMACY

Professor Stocking, Assistant Professor Browne

Pharmacy Ia. Theoretical Pharmacy: A study of the principles of pharmacy together with sufficient demonstrations to illustrate their application. Pharmaceutical arithmetic and pharmaceutical Latin are included. Lectures and recitations. Professor Stocking. 4 hours.

Pharmacy 2b. Official Pharmacy and Pharmaceutical Technique: A study of the processes involved in the manufacture of the Galenical preparations of the United States Pharmacopoeia and the National Formulary. Consideration is also given to the study of the drugs which are used in the manufacture of the various types of preparations. In this course the student makes about one hundred preparations including several of each pharmaceutical type as well as a number of non-official preparations. Recitations and laboratory. Deposit required. Professor Stocking. 4 hours.

Pharmacy 3a. Official Pharmacy and Pharmaceutical Technique: A continuation of Pharmacy 2. The more difficult preparations of the United States Pharmacopoeia and those in which chemical changes play an important part are studied in class and are

manufactured by the student in the laboratory. The finished preparations and the ingredients of each are studied with reference to standard requirements including solubilities, tests for purity and identity, assay methods, and dosage. Each student manufactures about sixty preparations. Recitations and laboratory. Deposit required. Professor Stocking. 4 hours.

Pharmacy 6. Commercial Pharmacy: A course of practical lectures on drug store management including instruction concerning store location, equipment, and arrangement. Drug store merchandizing will also receive consideration. Professor Stocking. 2 hours.

Pharmacy 7b. Pharmaceutical Methods: A course in elementary pharmacy for medical students. The student makes preparations of each pharmaceutical type contained in the United States Pharmacopoeia, as pills, powders, waters, decoctions, solutions, tinctures, emulsions, and liniments. Practice in prescription dispensing, and the making of stupes, poultices, plasters, and medicated baths. Recitations and laboratory work. Deposit required. Assistant Professor Browne. Four periods.

Pharmacy 8b. Prescriptions: A practical course in the compounding and dispensing of prescriptions, with special reference to chemical, physical, and therapeutical incompatibilities. The instruction will embrace the theoretical and practical application of the latest and best methods of compounding including the dispensing of such prescriptions as hypodermic and compressed tablets, soluble elastic capsules, suppositories, emulsions, etc. Lectures, recitations, and laboratory. Prerequisite, Pharmacy 1 and 2 and Chemistry 6 and 4. Deposit required. Professor Stocking. 3 hours.

Pharmacy 9a. U. S. P. Methods: A study of the United States Pharmacopoeial methods for drug examination and drug assaying. Prerequisite, Pharmacy 1, 2, and 3 and Chemistry 6, 4, and 5. Lectures and laboratory work. The student may take this work more than once and receive credit each time provided the work is not duplicated. Deposit required. Professor Stocking. 4 hours.

PHYSICS

Professor Haseman, Miss Maloy

Physics 1a. General Physics: Mechanics, sound, heat. Lectures, recitations, laboratory, and assigned readings. A beginning course in college physics. 4 hours.

Physics 2b. General Physics: Electricity, magnetism, light. Lectures, recitations, laboratory, and assigned readings. A beginning course in college physics. 4 hours.

Physics 61a. Household Physics: A study of those phases

of physics which enter into the daily household life. Special for women. 3 hours.

PHYSICAL EDUCATION

Professor Soutar

Physical Education Ia: Consists of a definite "day's order" of exercises, supplemented by light apparatus work and indoor and outdoor games. Required of freshmen. 1 hour.

Physical Education 2b. A continuation of Physical Education 1. Required of freshmen. Mr. Soutar. 1 hour.

ROMANCE LANGUAGES

Professor Dora, Assistant Professor Curtis

French Ia. Beginning French: Essentials of grammar, practice in colloquial French, prose composition, reading of easy texts. Special attention will be given to the French verb and to word order. Fraser and Squair's French Grammar, Super's French Reader, Talbot's Le Francais et Sa Patrie, and Halevy's L'Abbe Constantin. Given in two sections. Professor Dora. 4 hours.

French 2b. Intermediate French: Systematic study of grammar, French conversation, sight reading, parallel work. Fraser and Squair's Grammar, Cameron's Contes de Daudet, Merimee's Carmen, Scribe et Legouve's Bataille de Dames. Given in two sections. Professor Dora. 4 hours.

French 9a. Scientific French: This course is intended primarily for students of the sciences. The object is to lead the student to understand both the spoken and written language, and to enable him to read easily at sight scientific magazines and technically scientific works as well as to write with a fair degree of accuracy upon scientific themes. Bowen's First French Scientific Reader. Muller's Grandes Decouvertes Modernes, collateral readings. Professor Dora. 2 hours.

Spanish Ia. Elementary Spanish: Constant drill in pronunciation, the conjugations, and spoken Spanish. Practice in writing from dictation. Reading of short stories of moderate difficulty. Elementary composition. Assistant Professor Curtis. 4 hours.

Spanish 2b. Intermediate Spanish: Reading of modern prose, such as selections from the writings of Alarcon's Galdos, Valdes, Bazan, etc. Study of special grammatical constructions. Assistant Professor Curtis. 4 hours.

THE COLLEGE OF ENGINEERING

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

JAMES HUSTON FELGAR, A. B., M. E.
Professor of Mechanical Engineering, Dean of the College of Engineering.

EDWIN DEBARR, Ph. D.
Professor of Chemistry, Vice-President of the University, Director of the School of Chemical Engineering.

HAROLD VEATCH BOZELL, B. S.
Professor of Electrical Engineering, Director of the School of Electrical Engineering.

CHARLES HENRY TAYLOR, M. S.
Director of the School of Mining Geology, Professor of Geology.

JAMES I. TUCKER, B. S., LL. B.
Professor of Civil Engineering, Director of the School of Civil Engineering.

HERBERT BANCROFT DWIGHT, B. S., E. E.
Professor of Mechanics.

*SAMUEL WATSON REAVES, A. M.
Professor of Mathematics.

GUY YANDALL WILLIAMS, Ph. D.
Professor of Physical Chemistry.

JEROME DOWD, M. A.
Professor of Sociology and Economics.

THEODORE HAMPTON BREWER, M. A.
Professor of English Literature, Director of the School of Journalism.

*LOUIS ALVIN TURLEY, A. M.
Professor of Histology and Pathology.

WILLIAM PETER HASEMAN, Ph. D.
Professor of Physics.

*ROY TEMPLE HOUSE, A. M.
Professor of German.

*On leave of absence, 1914-15.

IRVING PERRINE, Ph. D.
Professor of Stratigraphic Geology and Paleontology.

GAYFREE ELLISON, B. S., M. D.
Professor of Bacteriology.

EDMUND PENDLETON RANDOLPH DUVAL, A. M.
Associate Professor of Mathematics.

RICHARD GRAY SOUTAR, B. A.
Professor of Physical Education.

*LOUISA BROOKE, B. A.
Assistant Professor of English.

ARTHUR BARTO ADAMS, M. A.
Assistant Professor of Economics.

LESTER WILLIAM WALLACE MORROW, M. E.
Assistant Professor of Electrical Engineering.

EARLE SELLERS PORTER, A. M.
Assistant Professor of Chemistry.

WALTER JACOB WOHLENBERG, B. S.
Assistant Professor of Mechanical Engineering.

LAWRENCE NELSON MORGAN, B. A.
Instructor in English.

KENNETH POTTER MONROE, B. S.
Instructor in Chemistry.

EVERETT STERLING DAVIS.
Instructor in Shop Practice.

HARRY CLINTON GOSSARD, Ph. D.
Instructor in Mathematics.

EDGAR MEACHAM, B. A.
Instructor in Mathematics.

GUY BRADFORD TREAT, B. C. E.
Instructor in Civil Engineering.

WILLIAM ROBINSON MOLINARD, E. E.
Lecturer in Electric Power Plant Engineering.

GEORGE WASHINGTON KNOX.
Lecturer in Electric Railway Engineering.

JAMES FRANKLIN NOBLE, A. B., LL. B.
Lecturer in Telephone and Telegraph Engineering.

HOMER LIVERGOOD.
Fellow in Electrical Engineering.

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*On leave of absence, 1914-15.

THE COLLEGE OF ENGINEERING

The College of Engineering of the University of Oklahoma is a school for the higher education of young men in engineering. Its courses of instruction include chemical, civil, electrical, mechanical, and mining engineering and are based upon drawing, mathematics, physics, chemistry, and shop practice.

Some eighty years ago Tredgold defined engineering as "directing the sources of power in nature to the use and convenience of man." The man who would follow the profession so defined must be a man of science as well as a man of business. It is for this reason that a systematic mental training in technology, before entering engineering practice, is so desirable. The profession of the engineer is relatively a new one, yet the men of the future who will occupy the leading positions as engineers and managers will probably be those who have had a college training and have taken the best advantage of the opportunity.

The preparatory training that one receives in a technical school gives one knowledge of the fundamental principles of the sciences that underlie all engineering practice, and, by a judicious introduction of laboratory practice and laboratory methods into courses formerly consisting entirely of theoretical and text-book work, the student learns the "how" as well as the "why" in the application of the science. The man who knows "how" to do certain things but does not know "why" usually remains in a subordinate position.

In the modern technical school the student is first made acquainted with the theory of principles and then in the shops and laboratories he verifies this theory. The theoretical and text-book work is supplemented by experiments and investigations in the laboratories. The student thus cultivates accuracy and clearness of thought, the essential qualities of a good engineer.

The performance of laboratory experiments with all the apparatus assembled ready to hand and all the directions explicitly given is apt to become purely mechanical and of very questionable educational value. Such exercises, though usually called practical, have really little of practice in them. In actual practice the engineer is confronted with difficulties which he can overcome by a

knowledge of underlying principles and his ability to create and assemble his own apparatus. The laboratories and shops of the College of Engineering have been especially equipped for the purpose of illustrating the fundamental principles of engineering.

Schools

The College of Engineering includes the Schools of Chemical, Civil, Electrical, and Mechanical Engineering, and the School of Mining Geology. An outline of the courses required of the students in each of the schools will be found in the following pages. The total number of hours required for graduation is fixed at 140.

Thesis

Each candidate for a degree in engineering will be required to prepare a thesis on some special engineering subject, or elect such engineering work for the required number of units as may be determined upon in consultation with the director of the school. The thesis may be a test of a power plant, a design of a machine or a piece of apparatus, or the investigation of some process of manufacture. Whatever the subject selected, the thesis must show original work or investigation and be as complete an exposition on the subject as possible. The subject for the thesis must be selected at the beginning of the senior year, and the thesis presented for approval not later than the first Monday in May before graduation.

Original typewritten copy or drawings, which shall become the property of the university, must be presented, and any machine or piece of apparatus constructed for this thesis shall also belong to the university.

Degree

The degree of Bachelor of Science, qualified by the name of the school in which the work is done, is conferred upon graduates of the College of Engineering. For information concerning graduate degrees in engineering see general catalogue under the Graduate School.

POSITIONS

No institution of learning can guarantee a position to every one of its graduates. The giving of employment is wholly beyond control of such an institution. The university authorities will use their best efforts to aid worthy graduates in securing suitable positions.

So far the university has been unable to meet the demand for technically trained men, and many are tempted by offer of lucrative positions to leave school before graduation. The College of Engineering of the University of Oklahoma, whose requirements for admission cover the work of a high school course, offers advanced and thorough

courses to those seeking a technical education. Those who have had the most thorough and advanced training can, of course, hope to secure the most desirable positions. Those who have made the necessary preparation are almost certain to secure positions of responsibility and trust.

ADMISSION

Applicants for admission to the College of Engineering should be at least sixteen years of age. Admission may be either by certificate or examination. Graduates of affiliated schools may present their certificates to the registrar on or before matriculation, as full credit will be given for all approved courses taken in such schools. Credentials from other high schools of recognized standing should be filed with the committee on admission at least two weeks before the opening of school. All applicants who do not hold such certificates or credentials should present themselves for examination.

NOTE: A more detailed statement of the university's plan of admission will be found in the general catalogue, under the head of "Admission".

Admission may be either to first year work without condition, to work as an unclassified student, or to advanced standing.

Admission to First Year

The requirements for admission are usually stated in units. A unit is the standard amount of work required in a secondary school subject, given five times a week, thirty-six weeks, with recitation periods not less than forty minutes in length. Fifteen units properly selected will admit to the first year's work without condition. The units required are given below:

Subject	Units
English	3
Algebra	1 1-2
Geometry	1 1-2
History	1
†One Foreign Language	2
*Physics	1
Electives	5
Total	15

*Chemistry, one unit; botany, one unit; zoology, one unit; or botany and zoology, one-half unit each, may be substituted.

†German is preferred in Chemical Engineering.

Admission to Second Year

At the beginning of the sophomore year each student must file with the registrar a statement showing which branch of engineering he chooses to follow. Blanks for this purpose can be secured at the registry office and must be approved by the dean of the College of Engineering and the director concerned.

Unclassified Students

Applicants for admission, not candidates for a degree, may be admitted to work suited to their needs with the approval of the dean. Such applicants must be twenty-one years of age, or must satisfy the requirements for admission to candidacy for a degree.

High school graduates presenting the equivalent of at least twelve admission units may be admitted to part of the first-year work, while making up deficiencies.

Advanced Standing

Advanced standing will be given for any work properly done in a school having equal entrance and other requirements. Application must be made for advanced standing at matriculation.

Students presenting entrance credit in manual training, drawing, or trigonometry, upon examination, may he excused from similar courses in the College of Engineering but must elect an equivalent number of hours.

EQUIPMENT

For a description of the laboratories, buildings, etc., and for other information concerning the College of Engineering, consult the proper section in the general catalogue.

OUTLINE OF THE WORK OF THE SEVERAL SCHOOLS

First Year Engineering—All Schools

First Semester Course	Hours	Second Semester Course	Hours
*Chem. 3 or Chem. 1	4	Chem. 7	4
English 1	4	English 2	4
Math. 5	4	Mech. Drawing 2	2
Math. 6	2	Math. 14	4
Mech. Drawing 1	2	Shop 2	2
Shop 1	1	Phys. Tr. 2	
Phys. Tr. 1			
Freshman Conference		Freshman Conference	
	17		16

Chemical Engineering

Second Year

First Semester		Second Semester	
Math. 117	4	Math. 118	4
Physics 51	5	Physics 52	5
Chem. 5	4	Chem. 102	4
†German 1 or 3	4	German 2 or 4	4
Chem. 103	2	Economics 9	2
	19		19

Third Year

First Semester		Second Semester	
Chem. 121	4	Chem. 122	4
Mech. 151	4	Chem. 123	2
Mech. 152	2	Mech. 153	4
M. E. 1	4	Mech. 154	2
M. E. 161	1	Geol. 1	4
German 9	2	German 10	2
	17		18

Fourth Year

First Semester		Second Semester	
Chem. 104	4	Chem. 106	4
Chem. 51	4	Chem. 152	4
Bacteriology 3	4	E. E. 56	2
E. E. 55	2	Thesis	3
Chem. 52	2	Engineering 51	3
English 119	2		
	18		16

*Students who have not had high school chemistry take Chemistry 1.

†Students who have not had two years of high school German take German 1 and 2.

Civil Engineering

Second Year

First Semester Course	Hours	Second Semester Course	Hours
Math. 117	4	Math. 118	4
Physics 51	5	Physics 52	5
Mech. Drawing 3	3	C. E. 2	4
C. E. 1	4	Geol. 1	4
C. E. 161	2	Economics 9	2
	18		19

Third Year

First Semester		Second Semester	
Mech. 151	4	Mech. 153	4
C. E. 3	4	Mech. 154	2
C. E. 151	4	C. E. 152	4
Mech. 152	2	C. E. 53	3
M. E. 1	4	C. E. 154	2
		Mech. 155	3
	18		18

Fourth Year

First Semester		Second Semester	
C. E. 155	4	C. E. 157	1
C. E. 156	1	C. E. 158	4
C. E. 59	3	E. E. 53	3
E. E. 51	3	E. E. 54	1
E. E. 52	1	C. E. 160	4
Bacteriology 3	4	Engineering 51	3
English 119	2		
	18		16

Electrical Engineering

Second Year

First Semester Course	Hours	Second Semester Course	Hours
Math. 117	4	Math. 118	4
Physics 51	5	Physics 52	5
Mech. Draw. 3	3	M. E. 4	4
Mech. Draw. 4	2	Mech. Draw. 5	2
M. E. 1	4	Shop 4	1
Shop 3	1	Economics 9	2
		M. E. 60	1
	19		19

Third Year

First Semester		Second Semester	
Mech. 151	4	Mech. 153	4
Mech. 152	2	Mech. 154	2
Physics 105	1	Mech. 155	3
Physics 104	4	E. E. 163	1
E. E. 161	4	E. E. 164	4
E. E. 162	1	M. E. 59	2
Chem. 51	4	M. E. 162	1
		E. E. 165	1
	20		18

Fourth Year

First Semester		Second Semester	
C. E. 1	4	Engineering 51	3
English 9	2	E. E. 175	2
E. E. 171	4	E. E. 176	2
E. E. 172	3	E. E. 177	2
E. E. 173	2	E. E. 178	2
E. E. 74	2	E. E. 179	2
		E. E. 80 Thesis	
		E. E. 81	
		E. E. 182	1
	17		14

Mechanical Engineering

Second Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Math. 117	4	Math. 118	4
Mech. Draw. 3	3	M. E. 2	4
Physics 51	5	Physics 52	5
M. E. 1	4	M. E. 4	4
Mech. Draw. 4	2	Mech. Draw. 5	2
Shop 3	1	Shop 4	1
	19		20

Third Year

First Semester		Second Semester	
Mech. 151	4	Mech. 153	4
Mech. 152	2	Mech. 155	3
M. E. 156	2	M. E. 154	3
M. E. 158	4	M. E. 52	2
M. E. 153	2	Mech. 154	2
Mech. Draw. 51	2	M. E. 162	1
M. E. 3	1	Economics 9	2
M. E. 161	1		
	18		17

Fourth Year

First Semester		Second Semester	
M. E. 163	3	M. E. 164	3
M. E. 155	2	M. E. 165	2
English 119	2	E. E. 53	3
C. E. 1	4	E. E. 54	1
M. E. 56	2	Engineering 51	3
E. E. 51	3	M. E. 166	2
E. E. 52	1	M. E. 57	2
		M. E. 67 Thesis	
	17		16

Mining Geology

Second Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Physics 51	5	Physics 52	
Math. 117	4	Chem. 2	4
C. E. 1	4	Chem. 5	4
Geol. 1	4	Geol. 2	4
		Economics 9	2
	17		19

Third Year

First Semester		Second Semester	
M. E. 1	4	C. E. 2	4
Geol. 102	3	Mech. 153	4
Chem. 101	4	Geol. 103	3
Mining Geol. 51	3	Mining Geol. 52	4
Mech. 151	4	Mech. 154	2
Mech. 152	2		
	20		17

Fourth Year

First Semester		Second Semester	
E. E. 51	3	E. E. 53	3
E. E. 52	1	E. E. 54	1
Mining Geol. 53	2	Geol. 104	4
Mining Geol. 54	3	Engineering 51	3
Mining Geol. 55	4	Mech. 155	3
Mining Geol. 56	2	Mining Geol. 57	3
English 119	2	Thesis	
	17		17

DESCRIPTION OF COURSES

NOTE:—First semester courses are marked a. Second semester courses are marked b. Courses with no letter attached are given both semesters.

BACTERIOLOGY

Professor Ellison

Bacteriology 3a. Sanitary Bacteriology: A study of the fundamental bacterial activity; methods of isolation from water, soil, and sewage, the testing of disinfectants; a study of septic tanks and the problems of public sanitation. This course is designed especially for students in engineering. Laboratory, conferences, and lectures. Deposit required. 4 hours.

CHEMICAL ENGINEERING

Professor DeBarr, Professor Williams, Assistant Professor Porter, Mr. Monroe

Chemistry I. General Chemistry: Laboratory and lectures with recitations. Students are required to use the chemicals and chemical apparatus of the laboratory in this course. Deposit required.

Section 1, first semester. Mr. Monroe.

Section 2, second semester. Assistant Professor Porter.

Section 3, first semester. Mr. Monroe.

Second semester. Mr. Monroe.

4 hours.

Chemistry 2b. General Chemistry: Laboratory and lectures. Prerequisite, Chemistry 1. Deposit required. Mr. Monroe. 4 hours.

Chemistry 3a. General Chemistry: Laboratory and lectures with recitations. Prerequisite, one entrance credit in chemistry. Three lectures and one laboratory period of three hours. Deposit required. Mr. Monroe. 4 hours.

Chemistry 5. Quantitative Analysis: Volumetric and gravimetric estimations. Lectures and laboratory. Prequisite, Chemistry 4. Deposit required. Professor Williams. 4 hours.

Chemistry 7b. Analytical Chemistry: Analysis of unknowns. Laboratory and lectures. Open only to students in engineering. Prerequisite, Chemistry 1 or 3. Prescott and Johnson's Qualitative Chemical Analysis. Deposit required. Professor Williams. 4 hours.

Chemistry 51a. Electro-Chemistry: This course takes up the elements of physical chemistry. Theory of electrolytic dissociation, migration of ions, conductivity of solutions, electromotive force, electrolysis, and some of the applications of electro-chemistry. Prerequisite, Chemistry 4, Physics 2, and Mathematics 17. Lectures and recitations and one laboratory period of three hours. Deposit required. Professor Williams. 4 hours.

Chemistry 52a. Chemical Technology: Lectures and recitations upon the processes employed in industrial chemistry. Prerequisite, Chemistry 4, 5, 121. Thorpe's Industrial Chemistry. Professor Williams. 2 hours.

For Undergraduates and Graduates

Chemistry 101a. Advanced Qualitative Chemistry: Continuation of Chemistry 4. Deposit required. Mr. Monroe. 4 hours.

Chemistry 102b. Advanced Quantitative Analysis: Continuation of Chemistry 5. Deposit required. Professor Williams. 4 hours.

Chemistry 103a. Inorganic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4. Deposit required. Assistant Professor Porter. 2 hours.

Chemistry 104a. Assaying: This course deals with the estimation of iron, lead, copper, silver, zinc, etc., by the wet way, and of gold and silver by the use of fluxes and other reagents. Prerequisite, Chemistry 5. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 106b. Iron, Steel, and Coal Analysis: A study of iron, steel, and coal used in commerce and for domestic purposes. Prerequisite, Chemistry 5. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisite, Chemistry 1 and 4. Professor DeBarr. 4 hours.

Chemistry 122b. Organic Analysis: Analysis of alkaloids and organic acids. Examination of fat and oils. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 4 hours.

Chemistry 123b. Organic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4, 121, and German 2. Deposit required. Assistant Professor Porter. 2 hours.

Chemistry 152. Elementary Physico-Chemical Measurements: A laboratory course that must be taken with or after Chemistry 51. Molecular weight determinations by vapor density, freezing and boiling point methods, study of solutions, solubility, conductivity, transport numbers, etc. Deposit required. Professor Williams. 4 hours.

CIVIL ENGINEERING

Professor Tucker, Mr. Treat

Primarily for Undergraduates

Civil Engineering 1a. Surveying: Theory and use of the ordinary instruments of surveying such as the tape, compass, transit, and level. The common operations of surveying and of calculating and plotting surveys are taught. Prerequisite, Mathematics 6. Professor Tucker. 4 hours.

Civil Engineering 2b. Advanced Surveying: Some attention is devoted to triangulation, topography and hydrography, astronomy, and geodesy. The theory and use of the plane table, sextant, barometer, slide rule, and instruments of lesser importance are studied. The class will make a topographic survey of a piece of land, take topographic notes over it and produce a finished map of the section. Prerequisite, Civil Engineering 1. Professor Tucker. 4 hours.

Civil Engineering 3a. Roads and Pavements: The principles involved in the location and construction of highways, streets, and roads, are studied, and numerous numerical problems solved illustrating them. Professor Tucker. 4 hours.

Civil Engineering 53b. Sewerage: Design and construction of sewerage systems both separate and combined, determination of size and capacity and modern methods of sewage disposal. Prerequisite, Civil Engineering 2. Professor Tucker. 3 hours.

Civil Engineering 59a. Water Supplies: A study of the quantity, quality, and source of potable water supplies with the necessary structures for collecting the same. A brief study of the operation of distribution systems, with considerable attention to modern methods of purifying and improving water for domestic and commercial uses. Professor Tucker. 3 hours.

For Undergraduates and Graduates

Civil Engineering 151a. Railroad Surveying: A study of the best practice in railroad field work, including the mathematics of simple and compound curves and of earthwork computation. Some field practice in curves; the projection of a line on a map and estimates together with approximate design of structures. Prerequisite, Civil Engineering 2. Mr. Treat. 4 hours.

Civil Engineering 152b. Railroad Surveying: A continuation of Civil Engineering 151. Mr. Treat. 4 hours.

Civil Engineering 154b. Foundations: Foundations on land and in water, cribwork, cofferdams, caissons, piles, and pile driving; stone, brick, concrete, pneumatic processes, etc. Mr. Treat. 2 hours.

Civil Engineering 155a. Structural Engineering: The calcu-

lation of stresses in steel roofs, bridges, and buildings. Studies are made of systems of loading and the solution of trusses by graphics. The principles taught in Mechanics 153 are brought into use in the design of members. Prerequisite, Mechanics 153. Mr. Treat. 4 hours.

Civil Engineering 156a. Railroad Engineering: Treats of economics of railway operation and maintenance, fundamentals of terminal designs, and trunk line electrification, and deals briefly with railroad accounting, valuations and reports. Prerequisite, Civil Engineering 151 and 152. Mr. Treat. 1 hour.

Civil Engineering 157b. Railroad Engineering; A continuation of Civil Engineering 156. Mr. Treat. 1 hour.

Civil Engineering 158b. Masonry Structures: Including building stone and quarrying and the design and construction of arches, dams, retaining walls, piers, and buildings of stone, brick, and concrete masonry, with special attention to reinforced concrete. Prerequisite, Mechanics 153. Mr. Treat. 4 hours.

Civil Engineering 160b. Structural Design: The actual detailing of simple metal structures. Prerequisite, Civil Engineering 155. Mr. Treat. 4 hours.

Civil Engineering 161. Fire Protection: A study of the principal classes of fire hazards in building construction and of modern methods for obviating or controlling them. The leading types of slow burning or fire-resisting construction are considered, together with plans and layouts providing maximum safety for persons and property. Professor Tucker. 2 hours.

Primarily for Graduates

Civil Engineering 200. Advanced Structural Design: Analysis and design of less simple structures of steel. 3 hours.

Civil Engineering 201. Advanced Structural Design: Continuation of Civil Engineering 200. 3 hours.

Civil Engineering 202. Re-inforced Concrete: Design and experimental work. 4 hours.

Civil Engineering 203. Railroad: A study of railroad statistics, management, and operation. 4 hours.

Civil Engineering 204. Water Purification and Sewage Disposal: The chemical and bacterial analysis of water and sewage, and the design of plants for commercially accomplishing the same. 3 hours.

Civil Engineering 205. Water Purification and Sewage Disposal: Continuation of Civil Engineering 204. 3 hours.

Civil Engineering 206. Water Power or Irrigation Engi-

neering: Stream flow data. Hydraulic turbines. Design and construction of dams and controlling works. 3 hours.

Civil Engineering 207. Water Power or Irrigation Engineering: Continuation of Civil Engineering 206. 3 hours.

Civil Engineering 208. Highway Engineering: Research and experimentation in the use of asphaltic and bituminous materials for street purposes and allied problems. 4 hours.

ECONOMICS

Professor Dowd, Assistant Professor Adams

Economics 9b. Business Administration: A study of lega. forms, credit instruments, funding operations, accounting, and executive duties. Assistant Professor Adams. 2 hours.

ELECTRICAL ENGINEERING

Professor Bozell, Assistant Professor Morrow,
Mr. Molinard, Mr. Noble, Mr. Knox

Primarily for Undergraduates

Electrical Engineering 51a. Direct Current Machinery: For civil, geological, and mechanical engineering students. Electricity; magnetism; theory of direct current machinery. Lectures and recitations. Prerequisite, Physics 2 or 52. Assistant Professor Morrow. 3 hours.

Electrical Engineering 52a. Electrical Engineering Laboratory: For civil, geological, and mechanical engineering students. Experimental work with direct current machinery and the instruments used therewith. Prerequisite, enrollment in Electrical Engineering 51. Assistant Professor Morrow. 1 hour.

Electrical Engineering 53b. Alternating Current Machinery: For civil, geological, and mechanical engineering students. Theory of alternating currents, alternating current machinery. Lectures and recitations. Prerequisite, Electrical Engineering 51. Assistant Professor Morrow. 3 hours.

Electrical Engineering 54b. Electrical Engineering Laboratory: For civil, geological, and mechanical engineering students. Experimental work with alternating current circuits, alternating current machinery, and the instruments used therewith. Prerequisite, enrollment in Electrical Engineering 53. Assistant Professor Morrow. 1 hour.

Electrical Engineering 55a. Dynamo-Electric Machinery: For chemical engineering students. Principles of electrical measur-

ing instruments and of direct and alternating current machinery. Small industrial installations. Lectures and recitations. Prerequisite, Physics 52. Assistant Professor Morrow. 2 hours.

Electrical Engineering 56b. Electrical Engineering Laboratory: For chemical engineering students. Experimental work with direct and alternating current machinery. Prerequisite, enrollment in Electrical Engineering 55. Assistant Professor Morrow. 2 hours.

Electrical Engineering 74a. Electrical Machine Design: Theory and principles underlying the design of electrical machinery in all details—electrical and mechanical. At least one design will be completed, including all drawings, by each student. Lectures, recitations and design periods. Prerequisite, Mechanics 153, and enrollment in Electrical Engineering 171. Professor Bozell. 2 hours.

Electrical Engineering 80b. Professional Thesis: Preliminary reading during the first semester. For the second semester, the student is expected to devote a large part of his free time to the personal investigation, experimental or other, of his subject, and to write an acceptable thesis upon his results and conclusions. Professor Bozell or other instructors, depending upon the nature of the subject chosen. Eight hours a week, by appointment.

Electrical Engineering 81b. Inspection Trip: A more or less extended trip—the nature and points visited varying from year to year—for the purpose of inspecting installations, operating and under construction, and manufacturing plants of special interest to electrical engineers. The students will be accompanied by Professor Bozell.

For Undergraduates and Graduates

Electrical Engineering 161a. Direct Current Machinery: Advanced work in electricity and magnetism. The theory of direct current machinery, circuits, and instruments. Lectures and recitations. Prerequisite, enrollment in Physics 104. Assistant Professor Morrow. 4 hours.

Electrical Engineering 162a. Electrical Engineering Laboratory: Experimental work with direct current machinery and measuring instruments. Prerequisite, enrollment in Electrical Engineering 61. Assistant Professor Morrow. 1 hour.

Electrical Engineering 163b. Electrical Engineering Laboratory: Continuation of Electrical Engineering 162. Commercial tests and operation. Prerequisite, Electrical Engineering 162. Assistant Professor Morrow. 1 hour.

Electrical Engineering 164b. Theory of Alternating Currents: A study, mainly mathematical, of alternating currents, alternating current circuits and phenomena. The fundamental theory of alternating

current machinery. Prerequisite, Physics 104, and Mathematics 117 Professor Bozell. 4 hours.

Electrical Engineering 165b. Electrical Laboratory: Advanced electrical measurements; experimental work with measuring instruments, apparatus, circuits, and conditions pertaining specially to alternating currents. Prerequisite, Physics 105, and enrollment in Electrical Engineering 164. Assistant Professor Morrow. 1 hour.

Electrical Engineering 171a. Alternating Current Machinery: The theory and study of alternating current machinery. Lectures and recitations. Prerequisite, Electrical Engineering 165. Professor Bozell. 4 hours.

Electrical Engineering 172a. Electrical Engineering Laboratory: Experimental work with alternating current machinery; methods of testing and operation. Work in the operation of combinations of direct and alternating current machinery. Prerequisite, enrollment in Electrical Engineering 171. Assistant Professor Morrow. 3 hours.

Electrical Engineering 173a. Telegraph and Telephone Engineering: Principles underlying telephone apparatus; operation of apparatus and systems. Experimental work with apparatus and equipment. . Theory of signaling in line and wireless telegraphy. Lectures, recitations, and laboratory. Prerequisite, Electrical Engineering 165. Professor Bozell and Mr. Noble. 2 hours.

Electrical Engineering 175b. Advanced Electrical Machinery: A continuation of courses 161 and 171. Advanced study of types of alternating and direct current machinery. Selection of machinery for specific purposes. Prerequisite Electrical Engineering 172. Assistant Professor Morrow. 2 hours.

Electrical Engineering 176b. Electrical Transmission and Distribution of Power: The principles involved and the methods used in the transmission and distribution of electric power. Lectures, recitations, and assigned readings; laboratory as required. Prerequisite, Electrical Engineering 172. Assistant Professor Morrow. 2 hours.

Electrical Engineering 177b. Electric Railway Engineering: The engineering principles and practice in electric railway work. The preliminary calculations, speed-time curves and schedules, power house and sub-stations, rolling stock, transmission, equipment. Lectures, recitations, problems, and assigned readings. Prerequisite, Electrical Engineering 172. Professor Bozell, and Mr. Knox. 2 hours.

Electrical Engineering 178b. Illuminating Engineering: A study of the different illuminants, and methods of illumination. Color effects, efficiency, photometry. Machinery peculiar to illumination. Lectures, recitations, and assigned readings. Laboratory as required.

Prerequisite, Mathematics 6 and Physics 2 or 52. Professor Bozell. 2 hours.

Electrical Engineering 179b. Electrical Power Plants: The economic design and operation of electric power plants. Selection and installation of machinery. Plans and estimates. Accounting, management. Lectures, recitations, and periods for design work. Prerequisite, Electrical Engineering 172 and Mechanical Engineering 60. Professor Bozell and Mr. Molinard. 2 hours.

Electrical Engineering 182. Current Electrical Engineering: Systematic reading with weekly reports and discussions of current periodicals and electrical engineering. Discussion of theory and practice therein contained. One recitation per week. Professor Bozell. 1 hour.

Primarily For Graduates

Electrical Engineering 201. Advanced Alternating Currents: Study of Steinmetz' writings on alternating currents with a comparison with other authors' theories and methods. 3 hours.

Electrical Engineering 202. Transient Phenomena: Study of Steinmetz' writings on transients with a comparison with other authors' theories and methods. 3 hours.

Electrical Engineering 203. Current Electrical Engineering: This includes systematic reading of current American, English, French, German, and other periodicals in electrical engineering with weekly reports and a comparison of theory and practice found therein with former practices and with each other. A general criticism of all of the important articles. Credit will be given each semester taken, but not to exceed nine hours credit will be given any one person. 3 hours.

Electrical Engineering 204. Advanced Electrical Railway Engineering: Investigation of capitalization, operation, management, and engineering. This will be supplemented with tests on equipment and selection of equipment, rolling stock, etc. 3 hours.

Electrical Engineering 205. Advanced Electric Railway Engineering: Continuation of Electrical Engineering 204. 3 hours.

Electrical Engineering 206. Advanced Steam Power Plant Engineering: This course includes methods of rate making, management, cost accounting, equipment, operation, and public relations. 3 hours.

Electrical Engineering 207. Advanced Hydro-electric Power Plant Engineering: The course includes hydraulic development and methods of rate making, management, cost accounting, equipment, operation, and public relations. 3 hours.

Electrical Engineering 208. Advanced Electrical Trans-

mission: Problems involved in modern high voltage, high power systems. Design, construction, and operation. 3 hours.

Electrical Engineering 209. Electrical Engineering Research: The subject in each case will be selected by the student and approved by the head of the department. Work will include a detailed study with such conferences, readings, laboratory work, and lectures as the work selected may demand. Credit may be received in each new subject taken up, but not to exceed five hours will be given in any one semester.

ENGINEERING

Professor Felgar, Professor Bozell, Professor Tucker

Engineering 51b. Contracts and Engineering: A study of the principles of business law with special reference to engineering and engineering contracts; practice in analysis and improvement of existing types, and in solving typical problems in specification writing. Professor Tucker. 3 hours.

For Graduates

Engineering 201. Public Utility Control: The history and present status of public utility commissions; study of current decisions. Professor Bozell. 3 hours.

Engineering 202. Engineering Valuation of Public Utilities: The elements entering into valuation of public utilities for different purposes, such as purchase by the people, sale to private capital, rate making, etc. A study will be made of valuations which have been made by engineers of note. One original valuation will be worked out with some degree of detail. Professor Bozell. 2 hours.

Engineering 203. Organization and Management: The principles of efficiency of organization and management as applied to a company or corporation doing engineering work, manufacturing or supplying power. Text book, lectures, and problems. Prerequisite, Economics 9. Professor Felgar. 2 hours.

ENGLISH

Professor Brewer, Assistant Professor Brooke, Mr. Morgan

English 1a. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence. Daily and fortnightly themes. Required of all candidates for the bachelor's degree. This course is the basis of all later work in composition and

gree. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it.

The course is given in ten sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Assistant Professor Church, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, and Miss Aughinbaugh. 4 hours.

English 2b. First Principles of English Composition: Long and short themes at stated intervals. A study of selected examples of nineteenth century prose. Lectures on the use of words. English 2 is a continuation of and presupposes English 1. Required of all candidates for the bachelor's degree.

The course is given in ten sections. Professor Brewer, Professor Hadsell, Assistant Professor Brooke, Assistant Professor Church, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, Miss Aughinbaugh. 4 hours.

English 119a. Advanced Composition: This course is intended for engineers and students in science of junior and senior rank. Particular attention will be given to the gathering and preparation of material, and to the writing and criticism of scientific papers. Mr. Morgan. 2 hours.

FRESHMAN CONFERENCE

Freshman Conference. A professor from each one of the schools in the College of Engineering will present to the freshmen during the year the scope of work included in his school, the field for which the work prepares him, the kind of work he will have to do in the field when he graduates, and the opportunities of that line of engineering work as a profession. The conference is required of all freshmen engineers; it meets once a month, according to the schedule. The meetings will be supplemented by assigned readings and technical reports.

GEOLOGY

Professor Taylor, Professor Perrine

Primarily for Undergraduates

Geology I. Elementary Geology: A general introductory course. A study of the origin of the earth, its past and probable future; the chief rocks and minerals and the manner of their formation; destructive and reconstructive processes; crustal movements and mountain structures; vulcanism and metamorphism; a chronological study of the history of the earth, and of the development and evolution of life forms. A field excursion to the Arbuckle Mountains

is included as part of the required work. Professor Perrine. 4 hours.

Geology 2. Physiography: A study of the development of land forms and of the agents which produce them. Special consideration is given to the life history and work of streams, to glaciers, to the ocean, volcanoes, etc. The course includes a brief consideration of meteorology. A field trip to the Arbuckle Mountains is included as a part of the required work. Professor Taylor, Mr. McCoy. 4 hours.

For Undergraduates and Graduates

Geology 102a. Crystallography and Mineralogy: A study of the laws of crystallization, and the classification of crystals. The physical properties, chemical composition, and mode of occurrence of minerals. Prerequisite, Chemistry 6. Deposit required. 3 hours.

Geology 103b. Mineralogy: A continuation of Geology 102. Descriptive mineralogy and blowpipe analysis. Prerequisite, Geology 102. Deposit required. Mr. McCoy. 3 hours.

Geology 104b. Economic Geology: A study of ore deposits with respect to their origin, mode of occurrence, and value. Also a study of coal, salt, gypsum, etc., with particular reference to their occurrence and development in Oklahoma. Prerequisite, Geology 1, 3, or 102, and general chemistry. Desirable antecedents, Geology 100, 101, 105, 106. Professor Taylor. 4 hours.

GERMAN

Professor House

German 1. Beginning German: Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Given in three sections in the first semester and in one section in the second semester. Professor House, Associate Professor Voss and Dr. Steitz. 4 hours.

German 2. Beginning German: This is a continuation of elementary German as given in German 1. Prerequisite, German 1, or equivalent. Given in three sections in the second semester, and in one section in the first semester. Professor House, Associate Professor Voss, and Dr. Steitz 4 hours.

German 3a. German Prose and Poetry: The reading of moderately difficult prose and poetry, selected from such authors as Schiller, Freytag, and others; the study of word-formation, syntax, and drill in conversation accompanies each lesson. One hour a week

is devoted to the study of prose composition. Prerequisite, German 1 and 2, or the equivalent. Given in three sections. Professor House, Associate Professor Voss and Dr. Steitz. 4 hours.

German 4b. German Prose and Poetry: Continuation of German 3 in second semester. Given in three sections. Professor House, Associate Professor Voss and Dr. Steitz. 4 hours.

German 9a. Scientific German: The aim of this course is to afford students of the sciences an acquaintance with technical scientific nomenclature and style. Reading of German scientific texts and articles in current technical periodicals will be required of students. Prerequisite, German 1 and 2. Wait's German Scientific Reader. Dr. Steitz. 2 hours.

German 10b. Scientific German: A continuation of German 9. Reading of German scientific texts (Goeschen Sammlung) and articles in current technical periodicals. Dr. Steitz. 2 hours

MATHEMATICS

Professor Reaves, Associate Professor Duval, Dr. Gossard, Mr. Meacham

Mathematics 5. College Algebra: Embracing the subjects of imaginaries, variables and limits, permutations and combinations, binomial theorem, series, undetermined coefficients, logarithms, determinants, and theory of equations. This course presupposes a minimum of one and one-half years in algebra. Six sections first semester and one section second semester. Professor Reaves, Associate Professor Duval, Dr. Gossard, Mr. Meacham. 4 hours.

Mathematics 6a. Trigonometry: This is a brief course intended primarily for engineering students, but open also to others. Prerequisite, Mathematics 2 or equivalent. Two sections. Dr. Gossard, Mr. Meacham. 2 hours.

Mathematics 14. Analytic Geometry: Equations and their loci; transformation of coordinates; the straight line, circle, and other conic sections; general equation of the second degree; introduction to solid geometry. Prerequisite, trigonometry. One section, first semester, and two sections, second semester. Prerequisite, Mathematics 6 or 9. Associate Professor Duval, Mr. Meacham. 4 hours.

For Undergraduates and Graduates

Mathematics 117. Calculus: Course in differential and integral calculus. Prerequisite, Mathematics 14. One section, first semester. Dr. Gossard. One section, second semester. Associate Professor Duval. 4 hours.

Mathematics 118. Calculus: A continuation of Mathematics 117 with numerous applications to practical problems. Prerequisite,

Mathematics 117. One section first semester. Professor Reaves. One section second semester. Dr. Gossard. 4 hours.

MECHANICS

Professor Felgar, Professor Dwight

For Undergraduates and Graduates

Mechanics 151a. Mechanics: A mathematical study of the laws of statics and kinematics; friction; the fundamental dynamical principles; kinetics of particles and of rigid bodies; some discussion of the dynamics of rotation and the gyroscope. Prerequisite, Mathematics 117 and Physics 1 or 51. Professor Dwight. 4 hours.

Mechanics 152a. Applied Mechanics: The application of mechanics to the solution of engineering problems and especially the use of graphics as a means of attack. Prerequisite, enrollment in Mechanics 151. Professor Dwight. 2 hours.

Mechanics 153b. Mechanics of Materials: A study of the strength of materials, stresses and strains in beams, columns, and shafts; elasticity, flexure, safe loading, designing. Prerequisite, Mechanics 151. Professor Dwight. 4 hours.

Mechanics 154b. Resistance of Materials: Experiments and investigations in the materials laboratory to verify the experimental laws; problems in engineering practice; the quality and requirements for structural materials. Prerequisite, enrollment in Mechanics 153. Professor Felgar and Professor Dwight. 2 hours.

Mechanics 155b. Theoretical Hydraulics: Principles of hydrostatic and hydro-dynamic pressure; laws that govern the flow of water through orifices, weirs, pipes, and canals; determination of experimental coefficients and their use. Recitations and laboratory. Prerequisite, Physics 1 or 51 and Mathematics 117. Professor Dwight. 3 hours.

Mechanics 156a. Machine Design: Proportioning and designing of machine parts for durability and strength. Prerequisite, Mechanics 151. Professor Dwight. 2 hours.

MECHANICAL DRAWING

Professor Felgar, Professor Dwight

Primarily for Undergraduates

Mechanical Drawing 1a. Technical Drawing: Free-hand lettering, standard forms for titles and choice of alphabets. Elementary mechanical drawing through the last ten weeks. Graphic solution of conic sections and other plane curves. Professor Dwight. 2 hours.

Mechanical Drawing 2b. Simple isometric and orthographic projections, shade lines and shadows, working drawings, tinting, and con-

ventional representation. Continued practice in lettering. Prerequisite, Mechanical Drawing 1. Professor Dwight. 2 hours.

Mechanical Drawing 3a. Descriptive Geometry: Orthographic projections in the solution of problems of the right line and plane; of curved and warped surfaces, intersections, and developments. Principles of shades, shadows, and linear perspective; isometric projections. Recitations and drawing. Prerequisite, Mechanical Drawing 2. Professor Felgar. 3 hours.

Mechanical Drawing 4a. Machine Drawing: Drawing of machine details from sketches and notes; sketching of machine parts and preparation of working drawings; tracing and blue printing; practical drafting-room methods. Preparation of a complete set of drawings for some simple machine. Prerequisite, Mechanical Drawing 2. Professor Dwight. 2 hours.

Mechanical Drawing 5b. Machine Design: Theory and design of gears, screws, cams, belts, and simple machines. Recitations and drawing. Prerequisite, Mechanical Drawing 2. Professor Dwight. 2 hours.

Mechanical Drawing 51a. Kinematic Drawing: Velocity diagrams, valve and indicator diagrams, and preliminary work for valve and steam engine design. Professor Dwight. 2 hours.

MECHANICAL ENGINEERING

Professor Felgar, Assistant Professor Wohlenberg

Primarily for Undergraduates

Mechanical Engineering 1a. Elements of the Steam Engine and Boiler: A brief study of the principles of steam engines, boilers, and steam turbines. Assistant Professor Wohlenberg. 4 hours.

Mechanical Engineering 2b. Valve Gears and Indicators: A study of the valve motions of the steam engine and of indicator cards. Assistant Professor Wohlenberg. 4 hours.

Mechanical Engineering 3a. Mechanical Laboratory: Study and calibration of instruments and testing of simple machines. Professor Felgar. 1 hour.

Mechanical Engineering 4b. Thermodynamics: Study of the relations of heat phenomena. Theory of gases and vapors. Theory of heat engines and discussion of heat efficiencies. Prerequisite, Physics 51, 52, and Mathematics 117. Professor Felgar. 4 hours.

Mechanical Engineering 52b. Steam Engine Design: Complete design of a steam engine with detailed working drawing of all its parts. Professor Felgar. 2 hours.

Mechanical Engineering 56a. Power Plant Design: Selection

of the plan and elevation of power plant and machinery, of piping systems, and of coal and ash handling systems. Professor Felgar. 2 hours.

Mechanical Engineering 57b. Power Plant Design (Continued): Professor Felgar. 2 hours.

Mechanical Engineering 59b. Advanced Steam Engineering: Study of heat losses in the steam engine with methods of reducing the same; corresponding superheating, jacketing, design of reciprocating steam engine; steam jet, design of a steam turbine. This course is designed to meet the demand of the electrical engineer. Professor Felgar. 2 hours.

Mechanical Engineering 60b. Mechanical Engineering Laboratory: For electrical engineers. Flue gas analysis, gas calorimetry, study of lubricating oils, efficiency test of steam and gas engines and a complete engine and boiler test. Porfessor Felgar. 1 hour.

Mechanical Engineering 67b. Thesis: A complete investigation of some subject relative to mechanical engineering, or the design of some special apparatus or machine.

For Undergraduates and Graduates

Mechanical Engineering 153a. Steam Power Plant Engineering: A study of fuels, types of boilers, and accessories in detail. Prerequisite, Mechanical Engineering 1. Professor Felgar. 2 hours.

Mechanical Engineering 154b. Steam Power Plant Engineering: A continuation of Mechanical Engineering 153. A study of the steam engine, steam turbine, steam pumps and accessories, with reference to design, cost, and installation of a power plant. Prerequisite, Mechanical Engineering 153. Professor Felgar. 3 hours.

Mechanical Engineering 155b. Steam Power Plant Engineering: A continuation of Mechanical Engineering 154 with special reference to power plant accessories, cost of power, tests and types of specifications. Prerequisite, Mechanical Engineering 154. Professor Felgar. 2 hours.

Mechanical Engineering 158a. Heat Engines: Thermodynamics applied to engines, both vapor and internal combustion. Professor Felgar. 4 hours.

Mechanical Engineering 161a. Mechanical Engineering Laboratory: Fuel and flue gas analysis, calorimetry, efficiency tests of steam and gas engines. Professor Felgar. 1 hour.

Mechanical Engineering 162b. Mechanical Engineering Laboratory: A study of lubricating oils and lubrication, efficiency tests of steam and gas engines with special reference to thermal

efficiency including a complete boiler and engine test. Professor Felgar. 1 hour.

Mechanical Engineering 163a. Refrigeration: This course includes the study of prime movers, for refrigerating machinery, refrigeration, and refrigerating machinery, using texts and catalogues. Professor Felgar. 3 hours.

Mechanical Engineering 164b. Heating and Ventilation: Nature and properties of heat, principles of ventilation, heat given off by radiating surfaces, steam heating boilers, various systems of piping, mechanical systems of heating and ventilation. Professor Felgar. 3 hours.

Mechanical Engineering 165b. The Gas Engine: Power, efficiency, and economy of gas engine. The use of gasoline, petroleum, distillate, and producer gas. The producer gas plant. Prerequisite, Mechanical Engineering 164. Assistant Professor Wohlenberg. 2 hours.

Mechanical Engineering 166b. Turbines: A study of the theory and design of the different types of steam turbines. 2 hours.

Primarily For Graduates

Mechanical Engineering 200. Advanced Mechanical Engineering Research: Lectures and laboratory. Credit may be received in each new subject taken up, but not to exceed five hours credit will be given in any one semester.

Mechanical Engineering 201. Heating Ventilation: Building a design of a vacuum system heating plant, with direct and indirect radiation. Selection of equipment, estimates of cost. Lectures and design periods. 4 hours.

Mechanical Engineering 202. Refrigeration; A complete design of a compression ammonia refrigeration system. Lectures and design periods. 4 hours.

MINING GEOLOGY

Professor Taylor

Primarily for Undergraduates

Mining Geology 51a. Elements of Mining Engineering: A course intended to introduce the student to the chief features of the profession of mining engineering. 3 hours.

Mining Geology 52b. Mining Engineering: This course deals with the mechanism and tools of mining, methods of prospecting and the opening up of deposits, including the sinking of shafts and slopes, the driving of levels, and the working of stopes or rooms. 4 hours.

Mining Geology 53a. Mining Engineering (Continued): In

this course are considered hydraulicking, tramming, hoisting of ore, coal, and men, pumping, ventilating, lighting, explosions, fires, underground survey, and manipulation of men. 2 hours.

Mining Geology 54a. Ore Dressing: This course treats of the various methods of crushing and concentrating ores. 3 hours.

Mining Geology 55a. Metallurgical Laboratory: A course in which the student makes a practical study of the working of machines, furnaces, etc., used in the processes of ore preparation and metallurgy. The course further treats of roasting, smelting, amalgamating, leaching, and electrolytic treatment of copper, lead, silver, and gold ores. 4 hours.

Mining Geology 56a. Mining Operations: This course is in part a continuation of Mining Geology 55, but includes also a study of the various motors and sources of power in mining work. 2 hours.

Mining Geology 57b. Metallurgy of Ferrous and Non-Ferrous Mineral: This course deals with the processes for extracting the various metals from their ores and treats of fuels and refractories, etc. Lectures. 3 hours.

PHYSICS

Professor Haseman

Primarily for Undergraduates

Physics 51a. Mechanics, Sound, Heat: Lectures, recitations, laboratory, and assigned reading. 5 hours.

Physics 52b. Electricity, Magnetism, Light: Lectures, recitations, laboratory, and assigned reading. 5 hours.

For Undergraduates and Graduates

Physics 104a. Electricity and Magnetism: Lectures and recitations. The general theory of potential, lines and tubes of force, fields of force, and influence of media as applied to electrostatics and magnetism. A study of the electric current with the theory of electromagnetism and electromagnetic apparatus. 4 hours.

Physics 105a. Electricity and Magnetism: A laboratory course including experiments on the accurate measurement of current, resistance, electromotive force, capacity, induction, hysteresis loss, calibration of electrical instruments, etc. Must be accompanied or preceded by Physics 104. 1 hour.

PHYSICAL EDUCATION

Professor Soutar

Physical Education 1a: Consists of a definite "day's order" of exercises, supplemented by light apparatus work and indoor and outdoor games. Required of freshmen. 1 hour.

Physical Education 2b. A continuation of Physical Education 1. Required of freshmen. Mr. Soutar. 1 hour.

SHOP WORK

Mr. Davis

Shop 1a. Woodworking: The care and use of tools and woodworking machinery; exercises in sawing, planing, mortising, framing, dove-tailing, turning, and pattern making. Deposit required. 1 hour.

Shop 2b. Forge and Foundry Work: Forge work consists of care of forge, use of tools, forging, welding, tempering, tool making; foundry work, moulding, casting, cupola practice, brass casting. Deposit required. 2 hours.

Shop 3a. Machine Shop: Chipping, filing, use of lathe, drill press, and emery wheels. Deposit required. 1 hour.

Shop 4b. Machine Shop: A continuation of Shop 3, using the shaper, planer, grinding machine, and milling machine, and constructing special exercises. Deposit required. 1 hour.

THE SUMMER SCHOOL

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

EDWIN DEBARR, M. S., Ph. D.
Vice-President of the University, Professor of Chemistry.

WARREN WAVERLEY PHELAN, Ph. D.
Director of the Summer Session, Professor of Psychology and Education.

JAMES SHANNON BUCHANAN, B. S.
Dean of the College of Arts and Sciences, Professor of History.

ALBERT HEALD VANVLEET, Ph. D.
Dean of the Graduate School, Professor of Botany.

FREDRIK HOLMBERG, B. M.
Dean of the School of Fine Arts, Professor of Music.

JOSEPH FRANCIS PAXTON, A. M.
Professor of Greek and Classical Archaeology.

JAMES WELLINGS STURGIS, Ph. D.
Professor of Latin.

GUY YANDALL WILLIAMS, Ph. D.
Professor of Physical Chemistry.

JEROME DOWD, M. A.
Professor of Sociology and Economics.

LUCILE DORA, M. A.
Professor of the Romance Languages and Literatures.

MONROE ALLEN FLOYD, A. M.
Associate Professor of History.

JOHN HENRY VOSS, M. A.
Associate Professor of German.

WILLIAM PETER HASEMAN, Ph. D.
Professor of Physics.

ERRETT RAINS NEWBY, B. A.
Secretary, Registrar.

Andrew Clarkson Parsons, A. B.
Professor of Secondary Education, High School Inspector.

Eva Ellsworth Dungan.
Associate Professor of Piano and Public School Music.

Angelo C. Scott, A. M., LL. M.
Professor, University Extension, English.

Joseph Whitefield Scroggs, A. M. D. D.
Professor, University Extension, Philosophy.

Emdund Pendleton Randolph Duval, M. A.
Associate Professor of Mathematics.

William Anton Schmidt, M. A.
Professor of the History and Administration of Education.

Jesse Lee Rader, M. A.
Librarian.

Howard Storm Browne, B. A., Ph. C., M. S.
Assistant Professor of Materia Medica.

Arthur Barto Adams, M. A.
Assistant Professor of Economics.

Andrew Robert Ramey, M. A.
Assistant Professor of English.

Lawrence Nelson Morgan, B. A.
Instructor in English.

Kenneth Potter Monroe.
Instructor in Chemistry.

George William Schmidt, B. M.
Instructor in Voice.

Paul S. Carpenter.
Instructor in Violin.

Alexander Watts McCoy, M. A.
Instructor in Geology.

Edward Everett Dale, A. M.
Instructor in History.

Harry Clinton Gossard, Ph. D.
Instructor in Mathematics.

Addie Maloy, B. A.
Instructor in Physics.

EDGAR MEACHAM, B. A.
Instructor in Mathematics.

MOLLIE ANNE PETERSON, Ph. B.
Instructor in Art.

HERBERT VICTOR LOUIS SAPPER, B. A.
Instructor in Bacteriology.

AUGUST STEITZ, Ph. D.
Instructor in German.

OLA ALICE FORBES, B. A.
Assistant in Art.

LOTTIE BOHRER.
Assistant in Physical Education.

WILLIAM LYNN CLARK.
Assistant in Physical Education.

GERALD STAMPER TEBBE.
Assistant in Psychology.

General Offices For Summer Session

The office of the director of the Summer Session is room 118 Administration Hall.

The office of the dean of the College of Arts and Sciences is in room 201 Administration Hall, and that of the dean of the Graduate School is in room 306 Science Hall.

The Committee on Admission meets in room 202 1-2 Administration Hall, and the Committee on Enrollment in room 116. The office of the Registrar is room 111.

The Committee on Recommendations meets in room 118 Administration Hall, Monday to Thursday at 11 a. m.

SUMMER SESSION

The Summer Session begins regularly on the Monday following commencement exercises in June and continues eight weeks.

ADMISSION

For entrance to the Summer Session no formal examinations will be required, but admission will be granted upon application when it shall appear to the director of the Summer Session that the applicant is of sufficient maturity and training to profit by the exercises of the session.

CREDIT

Students who desire to secure college credit for work done at the Summer Session must satisfy the regular requirements for admission.

Students enrolling in the university for the first time who desire to receive college credit for courses pursued, should bring a certified copy of their preparatory and other credits. This will facilitate enrollment and classification.

Students deficient in entrance credits may make up their deficiencies by taking certain courses offered in the Summer Session which may be counted to fulfill the requirements for admission.

In general, credit will be given at the rate of one college hour for sixteen exercises. A course of eight lectures weekly during the eight weeks will have a credit value of four hours in college. A smaller or larger number of periods per week will receive credit in due proportion to the time spent.

The normal amount of credit obtainable during the session, by a student devoting his whole time to courses strictly of university grade, is eight hours.

Students who do not enroll for credit will be given on application, certificates of attendance showing the amount and character of the work done.

A bachelor's degree represents 124 or more hours of credit, distributed according to the requirements of the College of Arts and Sciences. A master's degree represents thirty hours or more credit after the granting of the bachelor's degree.

GENERAL INFORMATION

The new University Hall in which most of the classes for the Summer Session will be conducted, is a handsome building of the collegiate gothic style of architecture. The laboratories and the library of the university and the various geological, zoological, ethnological, and other scientific collections are available for the use of students in the Summer School.

UNIVERSITY ASSEMBLY

Regular sessions will be convened Monday and Thursday during the summer term from 9:00 to 10:00 a. m. in which students may attend a gathering of the entire student body. At this time short addresses will be made or round table discussions held.

HOURS

During the summer session, each day is divided into the following periods:

In the forenoon, five one-hour recitation periods, from 7 a. m. to noon; the afternoon is reserved for conferences and laboratory work. As indicated elsewhere a four-hour course meets eight hours a week, and a two-hour course, four hours a week.

PHYSICAL TRAINING AND ATHLETICS

The tennis courts, the athletic field including the track and baseball grounds, and the baths of the gymnasium, are open for the use of the summer students.

RECREATION

The social and recreational features will be made attractive. Provision will be made as hitherto for lectures and musicals. An attractive program including both instructive and entertaining features will be presented.

FEES AND EXPENSES

Tuition is free in all departments of the university. Students taking private lessons in the School of Fine Arts must pay the fees described below. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted to students neglecting to pay the actual cost of such loss or damage; nor will honorable dismissal be granted such students.

In all laboratory courses students must pay the actual cost of material used. In some courses a fixed charge based upon the estimated cost of material is made and must be paid before beginning the work. In most laboratory courses a laboratory coupon book costing three dollars must be purchased by the student for each

course and deposited with the instructor. From this book the cost of material issued to the student will be taken at the time of issue. Additional books must be purchased from time to time as may be necessary. Any unused portion of such laboratory coupon books will be refunded in cash at the end of the Summer Session.

Board and Room

Board, including furnished room, can be had for from $4.00 to $6.00 a week. The average cost of living is as low in Norman as in any other town of its size in the state. The general advance in prices, however, so noticeable during the past several years, has increased the cost of living here as elsewhere. Applications for assistance in securing board and rooms should be addressed to the Committee on Accommodations.

CONFERENCES

During the summer session conferences are held each week on some leading educational question.

The conferences for the summer of 1915 include:

Church and country life conference.

Musical conference.

Vocational education conference.

Health and playground conference.

State high school conference.

The American Peace League.

Oklahoma Story Teller's League.

Conference on Oklahoma Folk Lore and Indian Legends.

ORGANIZATION

The work of the Summer Session has been organized to fit the needs of seven classes of students.

A. Candidates for the degree of Bachelor of Arts in the College of Arts and Sciences.

B. Candidates for the degree of Master of Arts in the Graduate School.

C. Teachers whether candidates for one of these degrees or not.

D. City and County Superintendents and Normal School Teachers, interested in the study of educational measurement and administration.

E. Students in the theory and practice of music, painting, and domestic science and art.

F. Students in pharmacy.

G. Students making up admission requirements.

A. CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

Candidates for the degree of Bachelor of Arts should confer with the dean of the College of Arts and Sciences with reference to the choice of subjects. For such students there are provided:

a. Required courses
b. Courses that fill the group requirements
c. Courses counting as major work for the bachelor's degree
d. Free electives in addition to the above courses

B. CANDIDATES FOR THE DEGREE OF MASTER OF ARTS

Candidates for a master's degree should confer with the dean of the Graduate School in order to be sure that the proper admission credits have been filed, and that the courses of study have been selected in accordance with the regulations governing the graduate school as set forth in the general catalogue of the university.

Candidates for a master's degree must complete thirty hours of work in one major subject and one or two minor subjects. To each minor subject shall be devoted approximately one half of the work devoted to the major subject. The major and minor may fall within the same department. If two minors are selected one must be chosen from another department.

Each candidate for a master's degree must prepare a thesis. The subject of the thesis, approved by the student's major professor, must be chosen before the close of the first summer session the candidate is in attendance. The completed thesis must be in the hands of the student's major professor two weeks before the close of the summer session in which the student applies for his final examination. On the recommendation of the major professor the dean may excuse a student from presenting a thesis.

With the consent of the department concerned, fourteen hours credit towards the master's degree may be earned through correspondence courses. Eight hours constitute full work for a summer session. It is, therefore, possible for a student to complete the work for the degree by attendance upon two summer sessions, supplemented by fourteen hours of credit earned through correspondence courses. It is earnestly advised however, and in most cases required, that the candidate complete three summer sessions in residence, supplemented by six hours of credit earned through correspondence courses. In either case the last eight hours must be earned in residence. All correspondence courses must be approved by the student's major professor and by the dean of the Graduate School.

C. COURSES FOR TEACHERS

The Summer School of the University of Oklahoma desires to present material of special value to teachers along the following lines:

First, for teachers who have little or no university credit but who expect ultimately to become candidates for a degree. Such teachers should select subjects immediately applicable to their work of teaching, but preferably from among the courses required for graduation.

Second, for graduates of the Oklahoma state normal schools, or equivalent normal schools, or those who have at least sixty hours of college credit. Such candidates should enroll in the School of Education. Arrangements have been made whereby graduates of the regular course of the Oklahoma state normal schools, who have had two years of normal training above the admission requirements to the university, are granted sixty hours of credit, thus enabling them to complete the university course and earn a degree in two years. These teachers likewise should select subjects immediately applicable to the work of teaching. They should, however, confer with the dean of the College of Arts and Sciences with reference to completing the prescribed courses.

Third, for teachers who are not seeking college credit but who wish merely to select courses of special interest in teaching.

Fourth, for teachers holding a bachelor's degree who by attendance during two or three summer sessions and by completing courses by correspondence may obtain the master's degree. The general plan of work required for a master's degree is outlined above under the heading "Candidates for the Degree of Master of Arts.'

The master's degree in education may be obtained by selecting education as the major and psychology as the minor subject and completing in these two departments thirty hours of work selected from among courses counting for credit for a master's degree. In general, however, it is recommended that an additional minor be selected from some other department offering graduate courses in subjects taught in high schools.

Courses in special methods of teaching various high school subjects may be counted as graduate work in the department of education.

Graduate courses in education and psychology will be offered in such a way that progressive work may be followed in three successive summers.

Candidates desiring a larger amount of graduate work in other subjects may make education or psychology a minor as indicated in the general plan for a master's degree given under the heading "Candidates for the Degree of Master of Arts." Teachers may thus secure graduate work in the subject or subjects that they regularly teach and combine

these with general courses in education and specific instruction in methods of teaching.

Students enrolled in the School of Education who complete the work for a bachelor's or a master's degree, including the prescribed courses in education outlined under the heading School of Education, will be granted, in addition to the degree, a life teacher's certificate to teach in the public schools of Oklahoma. (See general catalogue "School of Education".)

D. CITY AND COUNTY SUPERINTENDENTS AND NORMAL SCHOOL TEACHERS

Special courses of lectures and several conferences of interest to county and city superintendents are offered in the summer session. Annoucement of these courses is made in the summer session bulletin.

E. SPECIAL STUDENTS IN MUSIC, PAINTING, AND DOMESTIC SCIENCE AND ART

Private lessons in piano, in voice, in violin, in painting, will be given by members of the regular faculty of the School of Fine Arts, as described in the summer session bulletin. For this instruction the regular fees are charged.

Students in domestic science and art will be interested in the announcement of courses made in the summer session bulletin.

F. STUDENTS IN PHARMACY

Students wishing to take a short course in pharmacy or to prepare for examination will find special courses in pharmacy and materia medica offered by the School of Pharmacy.

G.—STUDENTS MAKING UP ADMISSION REQUIREMENTS

For such students several elementary courses are offered, a full description of which will be found in the summer session bulletin.

For complete description of courses offered in the summer session, address,

Secretary, University of Oklahoma, Norman, Oklahoma.

ROLL OF STUDENTS

DEGREES CONFERRED

Twenty-second Annual Commencement, June 11, 1914

BACHELOR OF ARTS

Eva Marie Anderson
William Judson Armstrong
*Ruth Aughinbaugh
Fritz Aurin
*Avis Caroline Barbour
Orval Monroe Bassett
Andrew Nimrod Boatman
Noah Newton Bollman
*George Bond
Luella Mildred Bretch
Harry James Brown
William Buttram
*Fanny Haynes Capshaw
John Tilghman Cline
Raymond Orland Courtright
Roy William Cox
WaldemarNathanielDannenberg
Walter Linginfelter Ditzler
Edwin Burton Duncan
*Olive Eagleton
William Lemuel Eagleton, Jr.
Edgar Wayne Fielding
Beulah Belle Forbes
Joseph Henry Foth
William Emanuel Goe
Lloyd Milner Graves
Louise French Hatchett
Walter Glenn Helmick
*Helen Louise Holtzschue
Sabert Alfred Hott
Joseph Dawson Houk
*Beulah Josephine Hurst
Arthur Blaine Imel
*Bessie Louise Klein
Leonard Marion Logan
*Addie Maloy
David Hogan Markham
Edgar D. Meacham
Charles Burrows Memminger
Bess Merkle
*Clara Meyer
Perrill Elizabeth Munch
*Lola Willda North
*Mayme Oliver
*Maude Olivia Owen
Everett Cecil Parker
*Helen Pyle
William Robert Rea
Claude Edwin Reeds
*Roberta Robey
John Lestrange Rock
Charley Elkins Rogers
Harry Murphy Scott
Ethel Catharine Sherman
Wade Hampton Shumate
*Charmeon Elizabeth Simpson
Edna Florence Smith
Lafayette Benjamin Snider
Roy Alonzo Spears
*Bettie Stephens
*Nina Stephens
Dana Mason Tisdel
Virginia Gilbert Tolbert
Morrison Reasoner Toomer
J. W. Trevette
Lena Pearl Trout
*Juanita Weatherred
Terrence Westhafer
Luther Herman White
Mary Wiggins
Francis Seymour Wyatt
*Valeria Helen Yeager
*Mildred Cora Zink

*Receives also the University Life Teacher's Certificate.

BACHELOR OF SCIENCE

Charles Nelson Berry
Albert Clifford Hirshfield
Richard Clyde Lowry
Thomas Claude Lowry
John Lestrange Rock
Herbert Victor Louis Sapper
Henry John Weedn
Earl Le Roy Yeakel

BACHELOR OF MUSIC IN PIANO

Lina Eloise Bryan
Agnes Mariam Chase
Ruby Wiggins
Marian MacTaggart

BACHELOR OF MUSIC IN VOICE

Callie Weatherred

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Clarence Lester Arnett
Sabert Alfred Hott

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Charles Edward Carey
Robert David Evans
David Ellery Renshaw
Lloyd James Hibbard

BACHELOR OF LAWS

Hubert Ambrister
Don Milone Bretch
Orel Busby
James Winfred Capshaw
Everett Lorraine Cline
Clarence Irvine Cowden
Frederick Jacob Hansen
Carl Jennings Hughes
Eugene Paul Ledbetter
Charles Lawrence Orr
John Freeman Pendleton
Norman Eben Reynolds
John Powell Rogers
Solon William Turk

DOCTOR OF MEDICINE

James Winter Brown
Paul C. Christian
Charles F. Davis
Arthur Haney
Powell Lambert Hayes
Thomas Frank Laidig
Albert Henry Marshall
John Robert Neal
Goldwin Nugent
Charles Ozias
S. Woodson Reynolds
Frank Robinson
Carl T. Steen
Edwin Crawford Thomas

BACHELOR OF SCIENCE IN PHARMACY

Clarence Nichols

PHARMACEUTICAL CHEMIST

Frank Edward Bradley
Reuben Nash Burrow
Howard Stanley Cain
Henry Nathaniel Gilmore
Jeff West Gunter
Ernest Loyd Hawkins
Ralph Preston Hron
Lee Hull
Fred Lamont Miller
Paul Roger Mills
Clarence Nichols
Harry Eugene Searle
Roy Shear
Eugene Laird Sutherland

MASTER OF ARTS

Ransel Eugene Andrew
Joseph Henry Foth
Ada Louise Goodspeed
Ralph Preston Hron
Franklin Marion Kimes
Bertha Crawford Oliver
James Absalom Padgett
Robert Augustus Stewart
Arthur Roscoe Wolfe

SUMMER CONVOCATION, AUGUST 7, 1914

BACHELOR OF ARTS

*Etta Dealva Alexander
Theodore Elbridge Bartlett
Charles Nelson Berry
*Lyda Robertson Caldwell
*Elvira Elizabeth Eagleton
John Theodore Eischeid
Marquis Leroy Fleming
*Ruth Anna Gifford
Roy Adelbert Graham
*James Roddy Hale
Howard Judson Holt
Audrey Pearle Isle
*Emma Pearl Lambert
Herbert Victor Louis Sapper
Mary Virginia Sawyer
Besse Ethelyn Snell
Julia Alberta Wardner
Earle Le Roy Yeakel

BACHELOR OF SCIENCE IN MEDICINE

Kirk B. Barb

BACHELOR OF MUSIC IN PIANO

Florence Van Buskirk

MASTER OF ARTS

*Ernest Albert Irvine
Katherine Shutts

*University Life Teacher's Certificate in addition to regular degree.

Total number of degrees conferred, 166.

ROLL OF STUDENTS, 1914-1915

Explanation: Letters and figures after a name indicate which school or schools the student enrolled in, and the amount of credit earned. A—Arts and Sciences; E—Engineering; F—Fine Arts; G—Graduate; L—Law; M—Medicine; N—Training School for Nurses; P—Pharmacy; X—Extension; C—Correspondence.

A small letter "u" after the name of the school indicates that the student is unclassified, that is, is doing special work or is deficient in entrance credits.

The figures after the name of the school indicate the number of hours credit earned in that school up to the beginning of the second semester. Students enrolled in more than one school do not have, in most cases, the sum of the various credits shown, owing to the fact that many courses count for credit in two or more schools, and are thus counted twice.

The letters and figures in brackets indicate which sessions the student was enrolled; i. e., 1—first semester; 2—second semester, s—summer session. The letter "n" indicates that the student enrolled for the first time in the university in the session immediately following the "n".

Third and fourth year medical students are marked "3rd" and "4th".

Abbott, Cora A u (n2)	Norman
Abney, Louis L 26 (1, 2)	Stratford
Abshier, William Floyd A 55 (1, 2)	Norman
Acree, Bessie Louise A 44 (s, 1, 2); F (1, 2)	Norman
Adams, Henry Grady M u 4th (1, 2)	Abbeville, Ala
Adams, James Elston M 54 (1, 2,)	Chandler
Adriance, Theodore L 15 (n 1, 2)	Tonkawa
Adwon, Joe Calhoun A 9 (n 1)	Oklahoma City
Aikman, Claude Edwin P 20 (1, 2)	Jenks
Akin, Mrs. Emma F u (n s)	Norman
Akin, Oliver, A u (n s)	Norman
Alcott, Arthur A 4 (n 1, 2)	Sulphur
Alexander, Mrs. Alice Buckley, A u 19 (s, 1, 2)	Norman
Alexander, Emma Francis F 58 Voice 40 (s, 1, 2)	Norman

Alexander, Elmina A 39 (s)	Norman
Alexander, Etta Dealva A 126 (s)	Norman
Alexander, Frank McLain A u 2 (2)	Norman
Alexander, Inez F u (n2)	Wellston
Alexander, Ione Ruth A u 15 (ns, 1, 2)	Norman
Alexander, Lillian F u 2 Voice 21 (1)	Norman
Alexander, Virgil Zay A u 4 (1, 2)	Norman
Allen, Alpha A u (n1)	Norman
Allen, Archie A 4 (n1, 2)	Marlow
Allen, Earl A 7 (n1, 2)	Vian
Allen, George Wallace L 68 (1, 2)	New Castle
Allen, Henry A 13 (n1, 2)	Verden
Allen, J. L. A 46 (n1)	Okmulgee
Allison, Don A 16 (n1, 2)	El Reno
Allison, Harold P u (n2)	Fairview
Ambrister, Harry A u (n2)	Norman
Ambrister, Roy A 56 (s, 1,2)	Norman
Ames, Ben Allen A 81 (n1, 2)	Oklahoma City
Amis, Margaret Ethel A 80 (1, 2)	Ramona
Amt, Carl Edmond F u (n2)	Oklahoma City
Anderson, Anna Mae A 17 (n1, 2)	Ardmore
Anderson, Edward Burke A 7 (n1, 2); L (2)	Quinlan, Tex.
Anderson, George M 19 (1, 2)	Ardmore
Anderson, Gladys F g (s)	Pryor
Anderson, Jennie A 12 (n1, 2)	Oklahoma City
Andrews, Jennie Patti F u (n1, 2)	Port Townsend, Wash.
Andrews, Leila X (n1)	Oklahoma City
Andrews, May X (n1)	Oklahoma City
Anglea, Hill L 68 (1, 2)	Edmond
Anthony, Bascom A u 5 (ns)	Haskell
Anthony, Edward Shaw A 17 (n1, 2)	Marlow
Archdeacon, Margaret A 14 (n1, 2)	Oklahoma City
Armstrong, Chester L 14 (n1, 2)	Newkirk
Armstrong, Jim P 16 (n1, 2)	Gotebo
Armstrong, Searcy X (n1, 2)	Lawton
Armstrong, William Judson L 40 (1, 2)	Boswell
Arnold, Mabel A 68 (s, 1, 2)	Thomas
Arthur, Nora Bell C (n1, 2)	Cyril
Arthur, Patti Joy F u (ns)	Tulsa
Asher, Frona F u 10 (1)	Norman
Askew, Willis A 12 (n1, 2)	Guthrie
Aughinbaugh, Ruth G 4 (1, 2)	Norman
Aurin, Fritz G 8 (1, 2)	Tecumseh

Avey, Martha X (l, 2)	Oklahoma City
Avey, Mary X (1, 2)	Oklahoma City
Bailey, Floyd A u (n2)	Altus
Bailey, Ollie Hazel A 45 (1, 2)	Norman
Bailey, William A 16 (n1, 2)	Tulsa
Baines, Roy Dixie A 85 (1, 2)	Hennessey
Baird, Phil A 9 (n1, 2)	Oklahoma City
Baker, Miss A. E., C (ns, 1, 2)	Norman
Baker, Eda Mary A 74 (s, 1, 2); F u (2)	Opalos, Kansas
Baker, Lucy A 14 (n1, 2)	Wewoka
Baker, Martha X (n1)	Oklahoma City
Baker, Winfred A 9 (ns); X (1)	Lawton
Ball, James A 17 (n1, 2)	Tulsa
Ballew, Frances A u (s)	Norman
Ballinger, Harry Carlisle A 28 (1, 2)	Anadarko
Balyeat, Frank Allen G 12 (12); C (1, 2)	Anadarko
Balyeat, Gladys Glee F 37 Piano 40 (s, 1, 2)	Norman
Balyeat, Mabel Alexander A u (s)	Anadarko
Balyeat, Ray Morton G 9 (1, 2); M 21 (1, 2)	Norman
Bancroft, Sue X (n1)	Oklahoma City
Barb, Kirk Bentley A 124 (s); M 4th (1, 2)	Norman
Barb, Thomas Mu 16 (n1, 2)	Batesville, Ark
Barkmann, John Julius A u 4 (ns)	Chicago, Ill.
Barnard, Addie X (n1, 2)	Guthrie
Barr, Katherine Abernethy A 76 (1, 2)	Chickasha
Barrett, Mabel A u (n2); F u (2)	Marysville, Kan.
Barrett, Seth Clifford E u 12 (n1, 2)	Marysville, Kan.
Barry, John William L 39 (1, 2)	Cherokee
Bartlett, Theodore Elbridge A 124 (s)	Cherokee
Barton, John Page A 27 (1, 2)	Perry
Barton, Stella Lee A 115 (s)	Chickasha
Battles, Heber Prentice A 67 (n1, 2)	Muldrow
Bacom, Ezra A 22 (ns)	Cheyenne
Baughman, Iris Murl A 41 (1, 2)	Oklahoma City
Bayless, Bourke Hamilton A 82 (1, 2)	Claremore
Bayless, Wayne L 14 (1, 2)	Claremore
Beard, Robert Lee A 42 (n1, 2)	Ponca City
Beasley, Wiley Boss L 78 (1, 2); A (2)	Guymon
Beattie, Hazel X (n1, 2)	Oklahoma City
Beaubien, Laura A 9 (n1, 2); F 4 (1)	Nowata
Beckham, Merrel A u 17 (n1, 2)	Roosevelt
Begun, Sol A 17 (n1, 2)	New York City
Bell, Charles Curry A 112 (1, 2); M 20 (1, 2)	Tonkawa

Bell, John Montgomery A 106 (1, 2)	Tonkawa
Bell, Nellie X (n1, 2)	Guthrie
Bellman, Alta Elnora C (n1, 2)	Tonkawa
Belt, Ida X (n1, 2)	Guthrie
Bender, Albert E (n1)	Cleveland
Bender, Helen X (n1)	Oklahoma City
Bender, Jessie Fremont C (n1, 2)	Nowata
Bennett, Hernando A u 68 (n1)	Norman
Bennett, Jim Basden E 144 (1, 2); A 124 (1, 2)	Norman
Berger, Walter A 49 (1, 2)	Wynnewood
Berlin, Herbert Augustus G 4 (s)	Wakita
Bernstein, Samuel M 3rd (1, 2)	New York City
Berrigan, Mary Agnes G (s)	Norman
Berrigan, Allegra A 96 (s)	Norman
Berrigan, Ruth A 17 (s1, 2)	Norman
Berrigan, William Jack A u 4 (s); Eu 4 (1, 2)	Norman
Berry, Alpha Mattie A u 7 (ns)	Norman
Berry, Charles Nelson A 124 (s)	Norman
Berry, Elida F 12 Piano 8 (n1, 2)	Pawnee
Berry, Lee Marie A u 4 (s)	Norman
Berry, Leo Alonzo M 3rd (1, 2)	Salitpa, Ala.
Berry, Ray L 12 (1)	Norman
Berry, Walter F u (n2)	Norman
Betty, Dorcas Loyez A u 9 (ns)	Temple
Bible, Gola Hannah G 16 (1, 2)	Norman
Bible, Ruby A 17 (n1, 2)	Norman
Biggard, May X (n1, 2)	Lawton
Biggers, Helen Louise A 43 (1, 2)	Norman
Biggers, Jesse Devoe E u 41 (1, 2)	Norman
Biggers, Vernon A u (n1, 2)	Bonham, Texas
Billingsley, Lem James L u (n2); A u (2)	Arapaho
Bills, Alice F u (n2)	Norman
Binford, Gertrude A u (ns)	Norman
Binkley, James Garfield M 58 (1, 2); A (s)	Guymon
Bird, Jack A 52 (1, 2)	Pawhuska
Bishop, Pauline X (n1, 2)	Guthrie
Bivens, James Andrew M 15, (1, 2); A 49 (1, 2)	Ardmore
Bivins, Mayme X (n1, 2)	Lawton
Black, Chauncey Harold A u (n2)	Norman
Black, Early A 54 (s1, 2)	Norman
Black, Ora A u 18 (s)	Stone
Black, Owen X (n1, 2)	Lawton
Blackert, Franz E u 18 (2)	Norman

Blackert, Helen Ione A 95 (s, 1, 2); F 53 Piano 28 (1, 2) Norman
Blackert, Kathryn A u 12 (s) Norman
Blaine, Thomas R. A 28 (n1, 2) Fletcher
Blake, Ada Alice A u 15 (s) Norman
Blanchard, Lela F 13 Piano 42 (1, 2) Noble
Blanchard, William Grant A 71 (1, 2) Purcell
Blanton, Will A 17 (n1, 2) Altus
Bledsoe, Roy Eugene L 66 (1, 2) Chicago, Ill.
Bloodworth, Jessie Athen A u 8 (ns) Hartshorne
Bloom, Nathan M 3rd (1, 2) Brooklyn, N. Y.
Board, Emma X (n1) Okemah
Board, Guy X (n1) Okemah
Boatman, Andrew Nimrod L 40 (1, 2) Norman
Bobo, Olga F u (s) Norman
Bobo, Okla Homa A u (ns) Norman
Boggs, John Clayton A 17 (n1, 2) Shawnee
Bohrer, Claude Ray E 54 (1, 2) Edmond
Bohrer, Lottie Jessie A 119 (s. 1, 2) Edmond
Bohrer, Maude May A u 9 (s) Edmond
Boomer, Cincinnatus A u 9 (ns) Buncombe, Ill.
Boone, Ina F u (n, s, 1) Purcell
Bounds, Overton A u 13 (1) Kingston
Bowen, James A 26 (2) Temple
Bowen, Orloff Lake A 64 (1) Caddo Mills, Tex.
Bowles, Arthur Garfield A 73 (s) Hollis
Boyack, Leojean A u (ns) Oklahoma City
Boyce, Anna A 17 (n1, 2) Carmen
Boyce, Bessie A 9 (n1, 2) Carmen
Boyce, Robert Marion A 17 (n1, 2) Carmen
Boyd, Elizabeth Virginia A 44 (1, 2) Oklahoma City
Boyd, Thomas Madison M 54 (1, 2) Norman
Boylan, Ebert Elwynn A 55 (1, 2) Shawnee
Boylan, Elaine A 17 (n1, 2) Shawnee
Boyle, Phil E u (n2) San Benito, Tex.
Bradfield, Samuel M u 4th (1, 2) Overbrook, Kans.
Bradley, Harold Clayton M 64 (1, 2); A (s) Geary
Bradshaw, Roy L u (n2) Chandler
Brainard, Marjorie A 16 (n1, 2) Oklahoma City
Brake, Charles Arthur M 54 (1, 2) Geary
Brasted, Nathan Russell A 7 (n1, 2) Oklahoma City
Braucht, Orville Smith A 16 (1, 2) Newkirk
Brauer, Hanna Emma A 53 (s) Norman
Brauer, Marie Emelyn A 107 (s, 1, 2) Norman

Breckner, W. L., C (s,1) Carmen
Breeding, Allie LaRose F u 15 Piano 21 (1) Lexington
Breeding, Corrine A 28 (ns, 1, 2) Oklahoma City
Breech, Pauline A 111 (2) Hobart
Brewer, Otto Adolph A 58 (1, 2) Norman
Brice, William Orville A u (n2); L u (2) Shrevport, La.
Bridges, John William C (n1, 2) Hollis
Bridgewater, Chester Reade F u 47 Voice 24 (s, 1, 2) Norman
Briegel, Rosetta A 127 (s ,1); G (2) Thomas
Briggs, Roy E u (n1); A u 17 (1, 2) Granite
Brill, James Abram A u 66 (n1, 2) Oklahoma City
Brillhart, Norman Wright A 36 (1, 2) Norman
Briscoe, Albert A u 8 (ns) Hollis
Bristow, Florence A 68 (s) Pryor
Broach, Frances F 9 Piano 16 (n1, 2) Tulsa
Broadus, Roberta Ford, F u (n2) Owenton, Ky.
Brock, Tola X (n1, 2) Oklahoma City
Bronaugh, Zue Mac F 38 Piano 8 (s, 2) Hugo
Brooks, Dorothy A u (s); F u (1, 2) Norman
Brooks, Florence Eddy A 53 (1, 2) Chickasha
Brooks, Fowler G 12 (ns, 2) Guthrie
Brooks, Helen Marcia G 2 (1) Norman
Brooks, Marian A 124 (s, 1) Norman
Brown, Adelbert L 9 (n1, 2); A (1) Oklahoma City
Brown, Albert Lee L u 1 (n1, 2) Pauls Valley
Brown, Arthur Merton E 93 (1, 2) Comanche
Brown, Ben X (n1, 2) Lawton
Brown, Berna A u (n2) Madill
Brown, Dora A u 9 (s) Norman
Brown, Edatha A 12 (n1, 2) Madill
Brown, Flavius George P 51 (1, 2) DeQueen, Ark.
Brown, Freda A 17 (n1, 2) Dewey
Brown, Harry Raymond P u (2) Norman
Brown, Inez F u (n2) Oklahoma City
Brown, John Damsell A 50 (1, 2) Anadarko
Brown, Josephine A u 9 (2) Norman
Brown, Leon Hart L 42 (1, 2) Mangum
Brown, Ruth Winifred A 115 (1, 2) Bartlesville
Brown, Wilbur Ellsworth X (1) Oklahoma City
Brown, Youra Spence M u 15 (n1, 2) Memphis, Tenn.
Browne, Howard Storm M 55 (1, 2) Norman
Brundage, Carl Langley P 15 (n1, 2) Thomas
Bryan, Noble A 2 (n1, 2) Vian

Bryant, Bernice Marie A 71 (ns)	Edmond
Bryant, Blanche Estelle A u 2 (ns); F u (s)	Edmond
Bump, Marie A 40 (1, 2)	Oklahoma City
Burch. Ruth Erskine A 30 (s, 2)	Norman
Burk, Agnes, A u (n2)	Norman
Burke, Lenore X (n1, 2)	Guthrie
Burlingame, Enid Gwendolyn A u 4 (ns)	Norman
Burress, George Howard A 109 (1, 2)	Ponca City
Burress, Walter March A 50 (1, 2)	Ponca City
Burris, A. H., C (ns, 1)	Temple
Burrus, Beatrice A 40 (ns, 1, 2)	Norman
Burrus, Lynn A u (ns)	Norman
Burton, John X (n1, 2)	Lawton
Burton, Samuel David A 73 (s)	Erick
Busby, William E u 18 (n1, 2)	McAlester
Buthod, Mrs. Beulah Butler A u 9 (ns)	Okarche
Buthod, Charles Paul A 86 (s); C (1, 2)	Okarche
Butler, Anna May F 61 Piano 32 (1, 2)	Norman
Butler, Bessie A 14 (s)	Norman
Butler, Maurine F 11 Piano 22 (n1, 2)	Tulsa
Buttram, William C (1, 2)	Wilburton
Butts, Maurine A u (n1, 2)	Oklahoma City
Buxton, Elaine A 5 (1)	Oklahoma City
Buxton, Merwin E u 12 (n1, 2)	Oklahoma City
Byfield, Genet Harriet F u (n1)	Oklahoma City
Bynum, Willis E u 71 (n1)	Ardmore
Byrne, Marguerite X (n1, 2)	Guthrie
Byrne, William Eugene E 90 (1, 2)	Lawton
Cady, Helen F u 3 (n1, 2)	Drumright
Cahall, Leah A u 43 (s, 2)	Norman
Cain, Homer Dodge F 25 (1)	Norman
Caldwell, Hazlitt Bond E 54 (1, 2)	Shawnee
Caldwell, Homer A 38 (l, 2)	Wheatland
Caldwell, Mrs. Lydia Robertson A 124 (s)	Jackson, Tenn.
Calhoun, Marjorie Adele F u (2)	Purcell
Callery, Ida Hayman L u (n2)	Wetumka
Calloway, Vivienne A 16 (n1, 2)	Pauls Valley
Calyer, Blanche A 9 (ns); F (s)	Lawton
Cameron, Donald L 13 (1, 2); A 16 (1, 2)	Claremore
Campbell, James Alonzo M 4th (1, 2)	Atmore, Ala.
Campbell, James R. G 9 (ns)	Arapaho
Campbell, Rae X (n1, 2)	Oklahoma City
Campbell, Williard Hastings A 36 (1, 2)	Anadarko

Capshaw, Elmer Alex A 113 (1, 2) Norman
Capshaw, Lillian Gay A 17 (n1, 2) Holdenville
Capshaw, Naomi May A u 16 (ns, 1); F u Piano 16 (1,2) Norman
Carder, William Roy A 105 (s, 1, 2) Cherokee
Carey, John Frank A 15 (s) Oklahoma City
Carl, Fred X (n1, 2) Lawton
Carleton, Lawrence M u 49 (1, 2) Oklahoma City
Carney, H. T., L u 5 (n1, 2) Ada
Carpenter, Murel Edward E 71 (1, 2) Collinsville
Carper, Walter Stephen A 88 (s, 2) Harmony
Carr, Pauline A 45 (1, 2) Frederick
Carr, William Austin M u 15 (1, 2) Mangum
Carroll, Henry A 79 (ns, 1, 2) Gotebo
Carson, Lewis P 43 (1) Tecumseh
Carter, Claudice Delle C (s, 1) Wakita
Carter, Emery A 17 (n1, 2) Pryor
Carter, Virvel Estella C (s, 1) Marlow
Cash. Edna A 102 (1, 2) Oklahoma City
Castile, Andrew Robert A 50 (s, 1, 2); P u (1) Norman
Castle, Lois Catherine X (n1) Okemah
Castleberry, E. Marvin G 12 (s) Hollis
Chadwick, Grace Williard F 50 (1, 2); A (s) Oklahoma City
Challes, Annie X (1, 2) Oklahoma City
Chamberlain, Lois A u 4 (ns) Vinita
Chapin, Esther F u 14 Piano 8 (n1) Watonga
Chapman, Charles X (n1, 2) Oklahoma City
Chase, Ralph M 62 (1, 2); A 115 (1, 2) Wynnewood
Chitwood, Walter Newton L 28 (1, 2) Tulsa
Christian, Colonel A (n2) Manitou
Christian, Roscoe Loren A 18 (1, 2) Manitou
Chumley, Channer Polk M 3rd (1, 2) Collinsville, Ala.
Clanton, Allie P u 27 (1, 2) Supply
Clare, Ross P u 49 (1, 2) Oklahoma City
Clark, Adra A u 4 (ns) Norman
Clark, Albert Francis M u (n2) Oklahoma City
Clark, Alma Willie A 50 (1, 2) Texola
Clark, Audley Evert A u 9 (ns) Ryan
Clark, Elizabeth Hallie A 46 (n2) Cherokee
Clark, Geneva Alma F 29 Piano 34 (s,l, 2) Norman
Clark, Lucy A 17 (n1, 2) Chelsea
Clark, Mae A u 8 (ns) Weleetka
Clark, Randall E 92 (1, 2) Shawnee

Clark, William Lynn A 90 (1, 2)	Comanche
Clarke, Carl William A 53 (1, 2)	Henryetta
Clarke, Ruby May A u (ns)	Norman
Clary, Beatrice N (ns, 1)	Oklahoma City
Clement, Bessie Alberta F u (2)	Norman
Clements, Richard A 17 (n1, 2)	Foss
Clift, Hubert Ellwood L 35 (1, 2); A (2)	Blackwell
Clifton, Eva G 13 (s, 1)	Norman
Clifton, Leonard Leroy, A 82 (1, 2)	Norman
Clifton, Roland Leroy A u 2 (ns)	Shattuck
Clifton, Mrs. Ruby Blubaugh F u 52 (s, 1, 2)	Norman
Cline, Victor A 12 (n1, 2)	Atoka
Clinkscales, Albert Sidney A 50 (1, 2)	Vinita
Clouse, Oles A 17 (n1, 2)	Shawnee
Clowers, Ollie Belle X (n1)	Okemah
Cochran, Roy A 17 (n1, 2)	Aylesworth
Cockrell, Alfred Mordica A 89 (s)	Holdenville
Cody, Elsie Leon A u (n1)	Overbrook
Coelen, Fred X (n1)	Oklahoma City
Coffman, Carrie Will F 13 Piano 24 (n1, 2)	Holdenville
Cohagan, Chester L u (1)	Sapulpa
Cole, Jerome P 15 (n1, 2)	Edgewood, Tex.
Cole, Ollie Eldred A 4 (n1, 2)	Edgewood, Tex.
Collins, Harvey Thomas A 92 (s,1, 2)	Norman
Collins, Pauline A u 2 (n1, 2)	DeQueen, Ark.
Compton, Roy L 12 (n1, 2)	Frederick
Conlan, Lottie A 12 (n1, 2)	Oklahoma City
Conner, Cecil A 99 (1, 2); L (1)	Covington
Coombs, Fred X (n1)	Oklahoma City
Cooper, Beulah N (n1)	Oklahoma City
Cooper, Lora Bell C (n1, 2)	Bliss
Copeland, Fayette A 16 (n1, 2)	Chickasha
Copeland, Richard Gardner A 106 (s,1, 2)	Sulphur
Corkill, William Edwards A 79 (s)	Chandler
Corn, Flora Taylor G (s)	Norman
Cornelius, Bessie Irene A 9 (2)	Lindsay
Cornelius, Emmett DeWitt G 4 (s)	Lindsay
Cornell, Nellie Quinn A u 9 (ns)	Okeene
Corporon, George William L 68 (1, 2)	Norman
Cotton, Cecil A 41 (1, 2)	Enid
Cotton, David Hester A 66 (s); L 11 (1, 2)	Hickory
Counts, James A u (n1); L u (1)	Hollis
Counts, Morton A u (n1); L u (1)	Hollis

Courtright, Homer F 47 Piano 32 (1, 2) Chelsea
Courtright, Miles G 2 (ns) Chelsea
Courtright, Raymond G (s) Tonkawa
Cousins, (Miss) Tom A 41 (s); N (1, 2) Eldorado
Coutant, Ben Wallace A 46 (s) Grant Pass, Oregon
Cowan, Edgar A u 17 (s) Chickasha
Cowan, Edmund Ellis A u 17 (s) Chickasha
Cowden, Clarence X (1) Oklahoma City
Cox, J. D., A 17 (n1) Duncan
Cox, Roy William L 43 (1, 2) Arapaho
Crabb, Charles C (ns, 1, 2) Tuttle
Crabb, C. Vernon L 13 (n1, 2); A 3 (l, 2) Arcadia
Crabb, Edward A u (ns) Yukon
Crabtree, Wiley Earnest A u (n1) Steedman
Craddock, Mariam A 13 (n1, 2 McLoud
Crain, Wiley A u (ns) Ripley
Craker, Paul A 12 (n1, 2) Nowata
Cralle, Edith Brown F u (n2) Norman
Cralle, Walter Odro A 124 (s, 1) Coalgate
Cralle, Zella Mae A 78 (1, 2) Norman
Cratty, Harry T., C (n2) Grandfield
Crawford, Johnson Tallie L 40 (1, 2) Ada
Creager, Joe Clyde E 18 (n1, 2) Clinton
Creamer, Paul A u (n2) Oklahoma City
Creswell, Edna A u 6 (ns) Kaw City
Crisp, George Marion A 89 (1, 2) Norman
Crisp, Leonora Mabel A 17 (s, 2) Norman
Croan, Edith N (n1, 2) Bradley
Cross, Howard Benjamin A 106 (1, 2); C (s) Waukomis
Crouch, Alice Amelia A u 6 (ns) Liberty, Mo.
Crowder, Bonnie F u (n2) Norman
Crowe, Will James L 68 (1, 2) Oklahoma City
Cruce, Lorena Jane A 84 (1, 2); F 25 Piano 44 (1, 2) Ardmore
Crump, Wilkie A 16 (n1, 2) Wynnewood
Cullen, Caleb A 93 (1, 2) Norman
Cullen, John A 84 (1, 2) Norman
Cullen, Nina A 17 (n1, 2) Norman
Cullen, William A 93 (1, 2) Norman
Cunningham, Clark Marvin A 58 (1, 2) Oklahoma City
Curlee, Clyde C (ns, 1) Oklahoma City
Daigh, Winnie X (1) Oklahoma City
Danvers, Myra X (n1) Oklahoma City
Darrough, Paul Gladstone L 70 (1, 2) Hugo

Darrow, Williard Albert F (n2)	Hennessey
Daugherty, Leah A 9 (n1, 2); F 4 (1,2)	Sulphur
Davenport, C. E., X (n1)	Oklahoma City
Daves, Genevieve X (n1, 2)	Guthrie
Daves, Myrtle X (n1, 2)	Guthrie
Davidson, Wallace A 17 (n1, 2)	Shawnee
Davis, Clara N (n2)	Oklahoma City
Davis, Edward A 103 (s); C (1, 2)	Edmond
Davis, E. Hardin E u 15 (n1, 2)	Waco, Tex.
Davis, George Fred M 3rd (1, 2)	Harveyville, Kans.
Davison, Chester M 4th (1, 2)	Garden City, Kans.
Davison, Denver Norton L 62 (1, 2)	Bokoshe
Davison, Hazel A 52 (1, 2)	Michigan Valley, Kans.
Dawson, Clay L u 1 (n1)	Aurelia, Iowa
Dawson, Raymond Lester A 111 (1, 2)	Oklahoma City
Day, Sava X (n1)	Lawton
DeBarr, Helen Celestia A 78 (1, 2)	Norman
DeBarr, Mary Isabel F u (1)	Norman
Deer, George L u (n1)	Wetumka
DeGolyer, Mrs. Nell Goodrich F g (2)	Norman
Delehanty, Katherine X (n1)	Lawton
Dellinger, Forest P 15 (n1, 2)	Gotebo
Dellis, Dora Dean A 102 (1, 2)	Frederick
DeMand, Edna A 73 (n1, 2)	Oklahoma City
DeMand, Francis Asbury M 45 (n1, 2)	Oklahoma City
Deming, Helen A u 9 (ns)	Thomas
Denison, Edith F u (s)	Norman
Denner, Ferdie E u 17 (n1, 2)	Enid
Dennis, Ray X (n1)	Oklahoma City
Denyer, Samuel Arthur L 54 (1, 2)	Chandler
Dersch, Walter M 54 (1, 2)	St. Joseph, Mo.
Devore Leland E 44 (1, 2); A 9 (s)	Ponca City
Dickason, Paul X (n1)	Oklahoma City
Dillenbeck, Mary Emily A 2 (n1, 2)	Chickasha
Dilley, Mary Florence X (n1, 2)	Guthrie
Dilworth, Bettie A u (ns)	Bonham, Tex.
Disney, Orville A 53 (1, 2)	Sedan, Kans,
Ditzler, Harold Tate A 56 (s,1, 2)	Norman
Ditzler, Maybelle F u Piano 24 (n1, 2)	Norman
Ditzler, Walter Linginfelter L 13 (1, 2)	Norman
Dobry, Joe A 5 (n1, 2)	Yukon
Dodge, Kay E u 13 (n1); A 7 (2)	Nowata
Dolph, George Longan E 33 (2)	Guthrie

Donaldson, John E 18 (n1, 2) Guthrie
Donovan, J. Wilmer E 34 (1, 2) Norman
Doolittle, Nettie Alice A 17 (s) Crescent
Dorough, John M 4th (1, 2) Oklahoma City
Dossey, Leo X (n1) Okemah
Dougherty, Virgil Frank A 17 (n1, 2) Lindsay
Dougherty, George Lewis A 62 (s, 1, 2) Covington
Doughty, Vera Corinne A 12 (n1, 2) Oklahoma City
Douglas, Alford A 12 (n1, 2) Oklahoma City
Douglas, Frank L u 35 (1, 2) Weleetka
Downing, Dick F u (ns) Norman
Downing, Dorothy F u (ns) Norman
Doyle, Margaret X (1, 2) Oklahoma City
Dreher, Henry M 4th (1, 2) Natoma, Kans.
Drennan, Gladys Frances F u 16 (n1, 2);
A u 12 (1, 2) Oklahoma City
Drew, Walter William L 13 (n1, 2) Ardmore
Driggers, James Robert A 52 (2) Chickasha
Dudley, F. Marion L 42 (1, 2) Welch
Duensing, Alma A 12 (n1, 2) Norman
Dunbar, James A u (n1, 2) Floral, Kans.
Duncan, Edwin Burton L 33 (1) Oklahoma City
Duncan, Henry A u (n1) Boswell
Dunn, Emma Brazilia F u 21 Piano 48 (n1, 2) Wapanucka
Dunn, Lillian F u (n2) Wapanucka
Dunn, Margaret F u 6 Piano 19 (n1, 2) Poteau
Dunn, Robert North L 66 (1, 2) Po eau
Durward, Grace C (s, 1) Altus
Dutcher, Emma X (n1, 2) Guthrie
Duvall, Dollie A 108 (1, 2) Ponca City
Duvall, Josephine A 108 (1, 2) Ponca City
Eades, William Oliver P 15 (n1, 2) Piedmont
Eagleton, Elvie Elizabeth A 124 (s) Norman
Easley, Julia Ann N (n1) Henryetta, Tex.
Eaton, Elsie Mae X (n1, 2) Okemah
Ebright, Carolyn Brighton X (1) Oklahoma City
Eckford, Julian A 10 (ns, 1, 2) Shawnee
Edgerton, Curt Donovan L 12 (1, 2) Sapulpa
Edwards, Harold Seburn A 101 (1, 2) Olustee
Edwards, Mrs. Harriet F u 14 Piano 36 (s, 1) Norman
Edwards, Irena C (1) Tulsa
Edwards, Navarre A 127 (s, 1) Norman
Edwards, Royden Jetson A 23 (1, 2) Olustee

Ehret, Kenneth E u 9 (n1, 2)	Oklahoma City
Eischeid, John Theodore A 124 (s)	Norman
Eischeid, Will Walter P 50 (1, 2)	Norman
Elder, John Allen G 2 (s)	Norman
Elder, Loula Emma G 25 (s)	Norman
Elledge, Izma Pauline A 46 (1, 2)	Norman
Elledge, Louise A 125 (1)	Purcell
Elliott, Floy Valeria A 91 (s)	Alva
Elliott, Rufus A u (ns)	Granite
Elliott, Verne F 13 (n1, 2); A 9 (1, 2)	Mangum
Ellis, Mitchell Overman A 20 (s)	Orlando
Ellison, Mrs. Anna F u (s)	Norman
Ellison, Ruth A 17 (n1, 2)	El Reno
Elmore, Leroy L u (n2)	Randlett
Emerson, Daniel C (ns, 1)	Spaulding
Emery, Julia A u 8 (n1, 2)	Newalla
England, Abner Elliott A u 52 (1, 2)	Durant
Erber, Fred L 1 (n1)	El Reno
Erickson, Arthur Erick E u 54 (1, 2)	Oklahoma City
Erickson, Jennie Sophia A 111 (1, 2); F 52 Piano 56 (1, 2)	Oklahoma City
Ernst, Ethel A 82 (n1, 2)	Cherokee
Erter, John Henry E (n1, 2)	Tulsa
Erwin, Vernie A 17 (n1, 2)	Wellston
Euliss, Marjorie Grace F u (n2)	Oklahoma City
Evans, Logan Illk M 3rd (1, 2)	Wilsey, Kan.
Evans, Raymond A 17 (n1, 2)	Shawnee
Evans, Roscoe A 17 (n1, 2)	Vinita
Everest, Harvey A (n1)	Oklahoma City
Ezell, Fred P 46 (n1, 2)	Hot Springs, Ark.
Falkenbury, Donna Julia F 36 (1, 2)	Miami
Farrell, Cora X (n1, 2)	Guthrie
Felker, William Earl L u 9 (1, 2); A u 28 (1)	Ardmore
Felt, Wright E u 81 (n1, 2)	Hamilton, Tex.
Fernandes, Grace X (n1, 2)	Guthrie
Ferrell, Enoch Brewer A 17 (n1, 2)	Sedan, Kan.
Field, Lee Clark E u 44 (1, 2); A u 26 (s)	Pauls Valley
Fields, Alta A u (ns)	Alma, Kan.
Fields, Jesse A 59 (1, 2)	Dewey
Fife, Howard A 17 (n1, 2)	Guthrie
Finley. James Hubert L 13 (n1, 2)	New Bloomfield, Mo.
Fischer, Pauline A 50 (1, 2)	Norman
Fixner, Nadine A (n1)	Tulsa

Fleming, Marquis Leroy A 125 (s) Norman
Flick, Mrs. George X (n2) Oklahoma City
Flitch, Audrey Lena A 53 (s, 1, 2) Ponca City
Flitch, Eva Barbara A 59 (s, 1, 2) Ponca City
Flitch, Sylvia Martha A 59 (s, 1, 2) Ponca City
Flood, Alice A u 8 (s) Norman
Flood, Ray E 121 (1, 2) Norman
Flynn, Theresa A u 21 (ns, 1, 2); F u 17 Voice 4 (s, 1, 2) Shawnee
Flynt, Elmo A 8 (n1, 2) Chandler
Fooshee, Clarence A u (n1, 2) Coalgate
Forbes, Beulah Belle G 4 (s); F (2) Norman
Forbes, Clyde G (s) Norman
Forbes, Margaret Maude F u 6 (s) Norman
Forbes, Minnie May F u (s) Norman
Ford, Lola X (n1) Oklahoma City
Forrester, Walter Paul A 48 (s, 1, 2) Stuart
Foster, Claude A 14 (1); F 18 (1) Blackwell
Foster, Edna A u (ns) Taylor, Tex.
Foster, Ellis Joseph A 17 (n1, 2) Coalgate
Foster, Lulu Ruth G 6 (s) Okarche
Foster, Mary Kathryn A 38 (1, 2) Oklahoma City
Foster, Rayburn L 40 (1, 2) Helena
Founts, Edna X (n1) Oklahoma City
Fox, Margaret A 9 (ns) Lawton
Fraker, E. Lester A 12 (n1, 2) Norman
Frank, Inez Viola F u (n1, 2) Purcell
Franz, Theresa X (n2) Oklahoma City
Frazier, Hope X (n1, 2) Guthrie
Freeland, Glen A u 1 (n1) Bristow
Freeman, Elvin Delph E 48 (1, 2) Chandler
Friar, Nona A 76 (n1, 2) Stigler
Fritts, Thomas Albert A u 18 (s) Norman
Fritzson, Edith X (1) Oklahoma City
Frost, Reuel Bryan A 23 (1, 2) Norman
Fry, William L., C (s, 1) Alma
Fuller, Emery E u (n2) Norman
Fuller, John L 14 (n1, 2) McAlester
Funk, William Frank A 81 (n1, 2) Alva
Fuqua, Herbert E u 11 (n1); A 8 (2) Duncan
Fuqua, Nolen A 26 (2) Duncan
Furman, Florence A 11 (n1, 2) Oklahoma City
Furman, Henry Marshall A 99 (1, 2); L 13 (1, 2) Okla. City
Gable, James Jackson M 4th (1, 2) Dawson, Tex.

Galbreath, Leona A u (n1); F u Piano 20 (1) — Tulsa
Galbreath, Robert A 61 (1) — Tulsa
Gardner, Lillie X (n1, 2) — Guthrie
Garlington, Elmer Franklin M 4th (1, 2) — Olustee
Garretson, O. K. A 21 (n1, 2) — Quinton
Garrett, Agee A u (n1) — Norman
Garrett, Anna Gertrude A 17 (n1, 2) F u (1) — Norman
Garrett, Lester Edward A (n1, 2) — Wakita
Garrett, Loy Daniel A 44 (1, 2) — Spiro
Garrett. Thomas A u 16 (n1, 2); E u 8 (2) — Tonkawa
Garton, Fay Lester A 109 (1, 2) — Blackwell
Gaskill, Ernest L (n2) — Ralston
Gastineau, Felix A 71 (1, 2); M 19 (1, 2) — Webb
Gayman, Mark Willis M 54 (1, 2) — Chandler
Gentry, Glowrene A 24 (n1, 2) — Pond Creek
Gentry, J. Malcolm A 107 (1, 2) — Pond Creek
George, Eurial Vivian A u (n1, 2) — Norman
George, Joseph Alonzo L 43 (1, 2) — Ada
George, Joseph Mathews A u 16 (n1, 2) — Altus
Geyer, Edmond Bruce A 102 (1, 2) — Norman
Geyer, Forest Park A 50 (1, 2) — Norman
Geyer, Kittie A 16 (n1, 2) — Norman
Gibbons, Margaret F u 7 Piano 32 (1, 2) — Purcell
Gibbons, Murray Francis A u 7 (2) — Purcell
Gibson, Malinda Blanche A 52 (s, 1, 2), F u 32 Violin 24 (s, 1, 2) — Norman
Gibson, Robert Berry M 4th (n1, 2) — Campolullo, S. Car.
Gidney, John Maney L u 30 (1, 2) — Muskogee
Gifford, Ruth Anna G 16 (1, 2); F u Violin 24 (s, 1, 2); A 124 (s) — Enid
Gilbert, Ellis Thomas G 5 (ns) — Oklahoma City
Gilbert, Warren John A 49 (1, 2) — El Reno
Giles, Ruby F u (1) — Norman
Gilkey, Edward A 10 (n1, 2) — Chickasha
Gilkey, Mary Naomi A 78 (1, 2) — Norman
Gilkey, Rosalie A 50 (1, 2) — Norman
Gillet, B. N., X (n2) — Oklahoma City
Gimeno, Harold F u 11 Piano 52 (n1, 2) — Oklahoma City
Givens, Edward Bruce A 8 (ns, 1, 2) — Norman
Glass, Thomas DeWitt P 52 (1, 2) — Norman
Glasscock, Lillian N (s, 1, 2) — Chandler
Glenn, Loy A u (ns) — Norman
Goff, Arta F u 2 Violin 40 (n1, 2) — Chickasha

Goff, Lee Burwell, E (n2) Oklahoma City
Goldner, Abraham M 3rd (1, 2) New York City
Gooding, Lillian A 67 (s, 1, 2) Norman
Goodknight, Vernon E 18 (n1, 2) Heavner
Goodman, Abram Robert M u 54 (1, 2) Austin, Tex.
Goodnight, Belle C (ns, 1) Skiatook
Goodrich, Margaret F u (1) Norman
Goodrich, Robert David A 77 (1, 2) Norman
Gordon, George X (1, 2) Oklahoma City
Gordon, Joseph Cowan E 120 (1, 2); A (s) Oklahoma City
Gordon, Mary Amelia A 64 (1, 2) Kansas City, Mo.
Gorton, Clover Gladys A 17 (1, 2) Norman
Gossard, Mrs. Zella A u (n1) Norman
Grady, Charles William A 66 (1, 2); M 19 (1, 2) Wheatland
Graham, Edna X (n1, 2) Oklahoma City
Graham, Margaret X (1) Oklahoma City
Graham, Roy Adellbert A 124 (s) Gibbon
Graham, Stephen Harry M 4th (1, 2) Oklahoma City
Graham, Thomas Edward E 50 (1, 2); A 49 (1, 2) Anadarko
Grath, Don E u (n1) Oklahoma City
Graves, John C (ns, 1) Gracemont
Gravette, Gertrude F 16 (n1, 2) Fairfax
Green, Charles C (n1, 2) Guthrie
Green, George LeRoy A 49 (1, 2) Elmwood
Green, Marquis P u 18 (n1, 2) Helena
Greene, Charles Henry A u 14 (s) Lindsay
Greenhouse, Abraham Charles A 85 (1, 2);
M 58 (1, 2) New York City
Gregory, Parthenia A u 28 (ns, 1, 2) Mangum
Gresham, Katherine F u 2 (n1) Jacksonville, Fla.
Griffin, Bennett Hill A 37 (1, 2) Norman
Griffin, Jeanette Eleanor A 119 (1, 2) Watonga
Griffin, Ruby Laura A u 21 (ns, 1, 2); F Voice 3 (1) Norman
Griffin, Troy Washington L 70 (1, 2) Norman
Griffin, Vera F u Violin 3 (1) Norman
Grimes, Earl A 5 (n1, 2) Hobart
Grove, Ethel Lucile A 43 (1, 2); F 4 (1) Coalgate
Grube, Wesley A 69 (2) Broken Arrow
Guild, Carl Holmes M 30 (n1, 2) Topeka, Kans.
Guthrie, John Alexander M 55 (1, 2) Norman
Gwinn, Allie May A 17 (n1, 2) Ardmore
Gwinn, James Sterling A u (n2) Helena
Haage, Arthur Edmond A 102 (s) Bartlett, Kan.

Hale, James Roddy A 125 (s) Norman
Hall, Eula A 72 (ns); F u (s); C (1, 2) Hobart
Hall, Leona A 69 (ns); F u (s) Hobart
Halley, Harry Lee Stuart A 98 (1, 2); L 13 (1, 2) Antlers
Halley, Rupert X (n1, 2) Oklahoma City
Hamilton, Billie F u 1 Piano 4 (n1, 2) Thomas
Hamilton, Florence G 6 (ns) Winfield, Kan.
Hammond, Mrs. Edith Sawyer A 113 (s, 1, 2) Norman
Hamner, Charles Ernest A u 4 (ns) Norman
Hampton, Carmen Louise F 13 (n1, 2) Rush Springs
Hancock, Sidney C (ns, 1, 2) Minco
Hannah, George A u 9 (ns) Edmond
Harder, David G 8 (ns) Hillsboro, Kan.
Hardin, Clifford Wilson E 62 (1) Oklahoma City
Harding, Cora F u 9 (ns); C (1, 2); A (s) Custer City
Harff, John Raymond M 49 (1, 2) Oklahoma City
Harley, John Thomas L 60 (1, 2) Phillips
Harlow, Rex Francis A 12 (n1, 2) Oklahoma City
Harper, Earl A 17 (n1, 2) Waurika
Harper, Frank C (ns, 1, 2) Quinton
Harrell, Glenn Dale F u 18 Voice 8 (s) Houston, Tex,
Harrell, Howell A u (n2) Oklahoma City
Harrell, Lillian F u 4 (ns) Houston, Tex.
Harrell, Lowry Houston L 44 (1, 2) Norman
Harrell, Otis E u (n1) Dewey
Harrill, Tom A 12 (n1, 2) Wagoner
Harrington, Charles Harrison A 8 (s) Norman
Harrington, Irma Jane A 89 (s, 1, 2): F u (s) Norman
Harris, Anna Mable A (s) Moore
Harris, Elsie F 32 (n1, 2); A 36 (1, 2) Edmond
Harris, George Gano A 71 (s, 1, 2) Norman
Harris, John Franklin G 27 (s) Okemah
Harris, Mrs. J. G., X (n1) Oklahoma City
Harris, J. G., X (n1) Oklahoma City
Harris, Marshall A u 2 (1, 2) Oklahoma City
Harris, Ruie May A (n2); F u (2) Sapulpa
Harrison, Izola Curley F u 45 Piano 24 (s, 1, 2) Rosedale
Harrison, Mitchell, L 25 (1, 2) Whitefield
Harrison, Oma X (n1) Oklahoma City
Harrison, Roy X (n1) Oklahoma City
Hart, Lillian F u 13 (n1, 2) Chickasha
Harvey, David L (n1) Wyandotte
Harvey, Mack F u (n2) Norman

Harwood, Carl Gaines G (1, 2)	Dover, Mo.
Hastings, Vesta F u (2)	Shawnee
Haswell, Lillie A u (n1)	Norman
Hatcher, Akard P 20 (1, 2)	Norman
Hatcher, Eula May A 76 (s)	Norman
Hatcher, Oscar A 72 (ns)	Frisco
Haun, Harry Lee G (s)	Pond Creek
Hawkins, Marguerite X (n1, 2)	Lawton
Hawkins, Mary X (n1, 2)	Lawton
Hayen, Emma A 61 (ns)	Edmond
Hayes, Blanche A 106 (n1, 2)	Guthrie
Hayes, Charles Roscoe P 35 (1, 2)	McLoud
Haynes, Charles M 4th (1, 2)	Topeka, Kansas
Hazeltine, Roy Sylvester A 124 (1, 2)	Norman
Heard, Elmer A 50 (1, 2)	Weleetka
Heath, Milton Mack A 97 (1, 2)	Warren
Heffner, Roy E 18 (n1, 2)	Bessie
Heller, Gilbert Nelson E 53 (1, 2)	Kiefer
Helmick, John A u 13 (s, 2)	Canton
Helms, Stokely P 34 (1, 2)	Fort Towson
Henderson, S. H., C (ns, 1, 2)	Oakland
Hendon, Bryan A 29 (1, 2)	Earlsboro
Hendon, Claude L 40 (1, 2)	Earlsboro
Hendon, Ernest L 70 (1, 2)	Ardmore
Hendon, Randall Robert L 70 (1, 2)	Earlsboro
Hendrick, Thomas Reid L (n2)	Chickasha
Henley, Emmett Allen L 70 (1, 2)	Blue Jacket
Henley, Marvin P u 15 (n1, 2)	Blue Jacket
Herin, S. C., C (s, 1)	Meeker
Herring, Elgin F u (n2)	Elk City
Herring, Olice F u (n2)	Elk City
Herrington, David John M 28 (n1, 2)	Newport, N. Car.
Herrington, Pearl F u (n2)	Norman
Herrman, Agnes A u 9 (ns)	Oklahoma City
Heyser, Marvin A u (n1)	Oklahoma City
Hickman, Cecil Rogers A 19 (1, 2)	Altus
Hicks, Andrew Jackson C (n1, 2)	Blanchard
High, Charles Leslie A 18 (1, 2)	Cushing
Hightower, Wilbur Edward A u 6 (ns)	Altus
Hikes, Etta X (n1, 2)	Guthrie
Hill, Edgar Carl X (n1, 2)	Oklahoma City
Hill, Edith X (n1, 2)	Guthrie
Hill, James Julian A 124 (s, 1); G 14 (1, 2)	Vinita

Hill, William Homer A 70 (ns)	Fairview
Hill, William Thomas A 14 (n1, 2)	Vinita
Hillery, Edward X (n1)	Oklahoma City
Hillery, Vernon X (n1, 2)	Oklahoma City
Hilsmeyer, Gladys Marie A 52 (1, 2)	Weleetka
Hilsmeyer, Hazel A 13 (n1, 2)	Weleetka
Hinds, Cecil F u 10 Piano 26 (n1, 2)	Weleetka
Hines, Leland Stanford A 27 (1, 2)	Sallisaw
Hirschi, Barbara Elma A 106 (1)	Iowa Park, Tex.
Hoar, Benjamin Jesse A 83 (s)	Garber
Hoar, Mrs. Ida Mary A u 13 (s)	Garber
Hocker, Reginald Nichols L 24 (1)	Purcell
Hodges, Alma F 9 Voice 8 (n1); A 9 (2)	Norman
Hodges, Jo F u 9 Voice 4 (n1, 2)	Norman
Hodges, Joseph Dee A u 8 (ns)	Oklahoma City
Hodgson, Sam Holt A 24 (s, 1, 2)	Tampico, Mex.
Hodnett, Phillip A 25 (n1, 2)	Marlow
Hoffman, Charles John P u 18 (n1, 2)	Muskogee
Hoffman, Ralph E u 18 (n1, 2)	Shawnee
Hogan, Helen F u (n1)	Cashion
Holden, Cyril A 29 (1)	Oklahoma City
Holland, Annie Blanche A 44 (s)	Norman
Holland, Hattie A 61 (s, 1, 2)	Chandler
Holland, Loyal E 18 (n1, 2)	Chandler
Hollenbeck, Dorys A 28 (n1, 2)	West Plains, Mo.
Hollenbeck, Gladys F 15 Violin 40 (n1, 2)	West Plains, Mo.
Hollis, Susie A 10 (ns)	Tulsa
Holman, James Bryant M u 45 (1, 2); A 45 (1)	Norman
Holt, Howard Judson A 124 (s)	Ottawa, Kan.
Honnold, Claude Leo A 96 (s), C (1, 2)	Thomas
Hoover, Hubert E u (n1, 2)	Wynnewood
Hoover, Maude A u (ns)	Norman
Hopper, Jack X (n1)	Oklahoma City
Hosey, Isaac E u 9 (n1); P (2)	Paden
Hosey, Orlando, E u 5 (n1); P (2)	Paden
Hoskins, Louis Harley A 110 (1, 2); L 13 (1, 2)	Okmulgee
Hott, Oliver James E u 68 (1, 2)	Wakita
Hott, Willis Monroe E u 53 (1, 2)	Wakita
Houghton, Cameo X (n1, 2)	Oklahoma City
Houghton, Nell, X (nl)	Oklahoma City
House, Matthew James, A u 8 (ns)	Denton, Texas
Howard, Deane, A 3 (nl, 2)	Oklahoma City
Howard, Merle Quest, M 3rd (1, 2)	Oklahoma City

Howarth, Myrtle Belle, F u Violin 6 (s, 1, 2)	Norman
Howe, Frank George, L 68 (1, 2)	Norman
Howell, Charles Pixley, A 86 (s)	Noble
Howell, Clyde, A 106 (1, 2)	Edmond
Howell, Ernest Leland, A 107 (s, 1, 2)	Ft. Cobb
Huckabay, Monetta, A 8 (ns)	Tulsa
Huddleston, T. H., C (s, 1)	Weatherford
Hudgens, Helen Rowena, A 17 (nl, 2)	Norman
Hudson, Julia, X (nl)	Montgomery, Mo.
Hudspeth, Belle, A u 19 (ns, 1, 2)	El Dorado
Huffman, Sherman, A 86 (1,2)	Wellston
Hughes, Calvin, E 18 (nl, 2)	Lone Wolf
Hughes, Violet, A 90 (ns)	Henrietta
Hull, Lee, P 94 (1, 2)	Norman
Hullum, Coleen, A u (n2)	Oklahoma City
Hulme, Helen, X (n2)	Guthrie
Humphrey, Hannah Eva, X (nl, 2)	Guthrie
Humphreys, Cecil Francis, F u (nl)	Temple
Humphreys, Leon Alfred, E u 32 (1)	Tulsa
Hunt, Jeanne, A 13 (nl, 2); F u 13 Voice 4 (1,2)	Shawnee
Huntington, Richard Lee, A 52 (1, 2)	El Reno
Hurley, Alice, A 78 (nl)	Tulsa
Hurst, Louis Glenn, A 49 (1, 2)	Chandler
Huston, Henry, M 54 (1, 2)	Aline
Hutchins, C. W., C (ns, 1, 2)	Davis
Hyde, Clarence Edgar, A 125 (1)	Konawa
Hyde, Herbert, A u (ns)	Norman
Impson, Hiram William, A 104 (1, 2)	Bokchito
Indenbaum, Samuel, M u (nl)	Elizabeth, N. J.
Inze, Amon, F u (2)	Norman
Irvine, Ernest, G 31 (s)	Norman
Isle, Audrey Pearl, A 124 (s)	Edmond
Isle, Walter Whitfield, A 113 (s, 1, 2)	Pauls Valley
Ives, Eva Lovina, A 110 (1, 2)	Avery
Jackson, Carl, A u (ns)	Norman
Jackson, Jesse L., A 12 (nl, 2)	Cordell
Jacobs, Frank, A (nl)	Holdenville
Jacobs, John Clark, A 86 (1, 2)	Mangum
Jacobs, Theodore, C (s, 1)	Boley
James, Vernon Richards, E 18 (nl, 2)	Oklahoma City
Jamison, John, E 8 (nl, 2)	Shawnee
Jamison, Lee, A 12 (nl, 2)	Wapanucka
Jay, Mary Catherine, X (nl, 2)	Oklahoma City

Jemison, Bertha, A 13 (ns) Temple
Jennings, George Henry, L 42 (1, 2); A 4 (1, 2) Kiefer
Jennings, Jo, F u 5 (nl, 2) Sulphur
Jesse, Hugh, X (nl, 2) Lawton
Jesse, John Louis, G 8 (ns) Altus
Johnson, Arline, F u Violin 22 (1, 2) Norman
Johnson, Claude Lowe, P 44 (1, 2) Tonkawa
Johnson Earl, P 52 (nl,2) Tonkawa
Johnson, Egbert Guy, M u 21 (nl, 2) Metropolis, Ill.
Johnson, Fletcher Marvin, L u 18 (l, 2) Pauls Valley
Johnson, Florence, X (nl, 2) Oklahoma City
Johnson, Froma, F u (1) Norman
Johnson, Hazel Meredith, A 93 (1, 2) Lawton
Johnson, Henry Lee, M 68 (1, 2); A 102 (1, 2) Hollis
Johnson, Lena Edwards, A u (ns) Norman
Johnson, Leona, A 17 (nl, 2) Altus
Johnson, Lucile, A u (n2) Randlett
Johnson, Lucille, A 86 (1, 2) Pawhuska
Johnson, Marie, N (s, 1, 2) Oklahoma City
Johnson, Mary Emily, A u 16 (s) Neosho, Mo.
Johnson, Montford Tilford, A 50 (1, 2) Norman
Johnson, Neil Robert, A 100 (1, 2); L 13 (1, 2) Norman
Johnson, Rocla, A 9 (nl, 2) Tulsa
Johnson, Valerie, A u 8 (ns) Hollis
Johnston, Carroll, A u (n2) Oklahoma City
Johnston, Spurgeon, P u (n1, 2) Kiefer
Jones, Benjamin George, M 50 (1, 2) Foss
Jones, Claude, A 16 (n1, 2) Wapanucka
Jones, Dudley Harwood, E u 51 (1, 2) Shawnee
Jones, Ella Vera, A 104 (s, 1, 2) Wynnewood
Jones, E. Lee, M 4th (1, 2) Oklahoma City
Jones, Hubert, A 10 (ns, 1, 2) McLoud
Jones, Isabel, A 12 (n1, 2) Oklahoma City
Jones, James Lee, A 24 (1); L (1) Kingston
Jones, Mack Marquis, A 36 (n1, 2) Tonkawa
Jones, Margaret Nevada, N (s) Oklahoma City
Judy, William Blaine, M 54 (1, 2); A 93 (1, 2) Pawnee
Kahn, Bernard Maurice, X (1) Oklahoma City
Kahn, Julietta, X (n1, 2) Oklahoma City
Karcher, Clarence John, E 91 (1, 2); A 76 (1, 2) Hennessey
Kaufman, Eugenia, A 86 (ns, 1, 2) Weatherford
Kaufman, Kenneth, A u (n2) Weatherford
Keenan, Robert Bruce, C (s, 1, 2) Tahlequah

Keller, Edgar, E 6 (n1, 2)	Lexington
Keller, Florence, A 53 (1, 2)	Thomas
Kellog, Gladys, X (n1)	Guthrie
Kelsey, Jessie, A 12 (n s)	Chickasha
Kenney, Richard Emmette, E u (n1)	Vinita
Kent, Edgar Jacob, C (ns, 1, 2)	Morrison
Kepner, Sewall, P u 48 (1)	Oklahoma City
Kerfoot, Reba, A u 4 (ns)	Shawnee
Kernodle, Stratton Ellington, M 36 (1,2); A 35(1, 2)	Skiatook
Kerr. W. E. E. C (n1, 2)	Tulsa
Keys, H. Norton, L u (n1)	Hobart
Kibler, Luther, A 75 (n1, 2)	Waynesville, Ohio
Kimberlin, S. O., A 16 (n1, 2)	Altus
Kinchen, Oscar Arvle, A 78 (s, 2); C (1, 2)	Erick
King, Beuna, A (n2)	Oklahoma City
King, Garland Lycurgus, A 80 (s, 1, 2)	Oolagah
Kinnaird, Donald Lewis, A 17 (n1, 2)	Bristow
Kinnebrew, Jackson Alvin, C (s, 1)	Marlow
Kirby, Grady, A 115 (s, 1, 2)	Scottsboro, Ala.
Kirkland, Beulah, C (n1, 2)	Amber
Kirshenbaum, Harry, M 3rd (n1, 2)	New York City
Kitchen, Luther Wesley, A 82 (n1, 2)	Sweetwater
Kitchen, Mrs. Maude, A 82 (n1, 2)	Weatherford
Kite, William Casper, A 84 (1, 2)	Perry
Klinglesmith, Ruth Elizabeth, A 92 (s, 1, 2)	Norman
Klostermyer, Louis Leon, A 17 (n1, 2)	Perry
Klugas, Alice Margurite, A u 23 (s, 1, 2)	Norman
Knack, E. Earl, A 73 (ns)	Edmond
Koester, Ernest, L (n1); A 15 (1, 2)	Bartlesville
Koester, Paul, E 18 (n1, 2)	Dewey
Krafft, William August, E 12 (1, 2)	Oklahoma City
Kramer, Forest John, A 16 (n1, 2)	Tulsa
Krasnoff, Harry Edward, L u (n1)	New York City
Lambert, Emma Pearl, A 125 (s)	McLoud
Lancaster, Florence Ethel, N (ns, 1, 2)	Oklahoma City
Lane, Mary Effie, C (n1, 2)	Ardmore
Lane, William, A 85 (n1, 2)	Alva
Langford, Cecil, E u 14 (n1); A u (2)	Norman
Langston, Wann, M 3rd (1, 2); A 95 (s)	Francisco, Ala.
Larkin, Henry Watson, A u 9 (ns)	Amber
Laskey, Glenn, A u (n2)	Oklahoma City
Lathram, Crit, E u 11 (n1, 3)	Lawton
Lawhead, Josephine, A 122 (s, 1)	Woodward

Lawrence, Arthur, X (n1. 2) Lawton
Layman, Pauline Cudda, C (s, 1, 2) Tulsa
Leach, Elsa, F u (n1, 2) Norman
Leach, Eunice Paige, A 66 (s) Carbondale, Kansas
Leach, Nina Naomi, F 12 Piano 20 (s, 1, 2) Norman
Leach, William Tecumseh, G 30 (s) Norman
LeBus, Kathleen, A 13 (n1, 2) Tulsa
Ledbetter, Helen, F u (n2) Oklahoma City
Ledbetter, Robert, L 14 (n1, 2) Oklahoma City
Lee, Grace, G 4 (1) Norman
Lee, Grace, A u (ns) Norman
Lee, Joshua Bryan, A 42 (n1, 2) Rocky
Lee, Muna, G 10 (s) Oklahoma City
Leeper, Olive Grace, G 7 (s) Norman
LeFlore, Campbell, A 16 (n1, 2) Atoka
Legler, Metta Kathryn, A u (n2) Kansas City, Mo.
Leslie, Clair, P u 1 (n1, 2) Oklahoma City
Levite, Abraham, P 15 (n1, 2) Apache
Levy, Morris, E 6 (1); P (2) Norman
Lewis, Grady, A u 12 (n1, 2) Bokchito
Lewis, Roy St. L u 70 (1, 2) Sharon, Pa.
Lhevine, Morris Boise, M 54 (1, 2); F u Voice 8 (1, 2) Poltava, Russia
Lichlyter, Frank, L 13 (n1, 2) Douglas
Lieber, Mrs. G., X (n1, 2) Oklahoma City
Lieber, Hugh Gray, Au 17 (n1, 2) Oklahoma City
Ligon, Miller, L 5 (n1, 2) Ada
Limbacker, Wayne, E (n2) Pauls Valley
Lindsay, Mrs. Dora L., F u (1, 2) Norman
Lindsay, Ruby May, A u 4 (s) Norman
Lindsley, Jean, X (n1, 2) Lawton
Little, Ida Mae, X (n1, 2) Lawton
Lively, Prentice, A 86 (1, 2) Blackwell
Livergood, Homer, E 130 (1, 2) Newkirk
Logan, Clarence Ziegelmeier, A 54 (1, 2) Shawnee
Logan, David Matthew, E 47 (1, 2); A 79 (1, 2) Tahlequah
Lohr, Lida, X (n1) Guthrie
Long, Sallie, A 113 (1, 2) Wagoner
Lookabaugh, Lytton Leonard, L 6 (n1, 2) Watonga
Loomis, Edith, A 15 (n1, 2) Cherokee
Loomis, Harvey, A 99 (1, 2) Norman
Loucks, Clifford, A 100 (s, 1, 2); L 13 (1, 2) Walters
Lourie, Mark, M 54 (1, 2) New York City

Love, Joe Criner, A 45 (1) Purcell
Lovell, L. B., L u (n2) Waukomis
Lowe, Ruth, A u 48 (n1, 2) Shawnee
Lowe, Zearl Eaton, P 16 (1, 2) Mangum
Lowry, Dick, M 3rd (1, 2) Muskogee
Lowry, Tom, M 3rd (1, 2) Muskogee
Lucas, Blanche, X (n1) Oklahoma City
Luttrell, Pearl, A 13 (n1, 2) Norman
Lyle, Edith, A 26 (n1, 2) Oklahoma City
Maas, Angela, A u 8 (ns); F u (s) Kingfisher
Mabry, Harry Cooper, A u 9 (ns) Weatherford
Mackey, Clifton Marion, E 57 (1, 2) Durant
MacTaggart, Marion, F g (s); A 68 (s) Oklahoma City
Madden, Dora, C (n2) Cherokee
Madden, Elwood, A 82 (n1); C (2) Ingersol
Madden, Frank, A 13 (n1, 2) Norman
Madden, Mrs. Margaret Liddell, F u Voice 24 (n1, 2) Norman
Madden, Margaret Ola, F u Voice 4 (ns, 1, 2) Norman
Maitlen, Florence, N (ns, 1, 2) Parsons
Malarkey, Wonda Alene, A 112 (1, 2); F u Voice 21 (1) Cleveland
Mallory, Jasper Newton, A 70 (s); C (1) Dustin, Texas
Maloy, Flora, A 15 (ns, 1, 2) Norman
Maloy, Refus Ellis, E 29 (1) Norman
Mann, George Leftredge, E u 13 (1, 2) Holdenville
March, Robert Lee, A 26 (1, 2) Duncan
Marchant, Guy, A u 9 (n1, 2) Wapanucka
Markham, Charlotte, A u (ns) Tahlequah
Marlow, A. L., C (s, 1) Blackwell
Marrs, James Wyatt A 49 (1, 2) Chickasha
Marsh, Lucy N (n1, 2) Kingfisher
Martin, Carrie Anne F 36 Piano 24 (1, 2) Norman
Martin, Chesley Marion M 4th (1, 2) Fletcher
Martin, Lillian True A u 13 (s) Norman
Martin, William Allen M 4th (1, 2) Valliant
Mason, Irene A u 8 (ns) Guthrie
Matthews, James A u 15 (n1, 2); F u (1, 2); L (2) Chickasha
Matthews, John Joseph A 16 (n1, 2) Pawhuska
Mauk, Jean Marie A 61 (s, 1, 2) Oklahoma City
Mavity, Ralph Page M 4th (1, 2) Tonkawa
Mayberry, Thomas C (s, 1) Tribbey
Mayfield, Warren A 17 (n1, 2) Norman
McAdams, Alpha May A 5 (n1, 2) Texhoma

McBryde, Lillie Alline A u (n2)	Whitesboro, Tex.
McCain, Barnes A 90 (1, 2); L 40 (1, 2)	Quinton
McCain, Frank A 80 (n1, 2)	Ada
McCalib, D. Preston L u 34 (1, 2)	Durant
McCall, Anne Rotan A 63 (s, 1, 2)	Norman
McCall, Mrs. John Harvey F u 4 (n1)	Norman
McCall, Laura A 1 7 (1, 2)	Norman
McCall, Madge A u (ns)	Norman
McCall, Vivian F u (n2)	Norman
McCarrell, Ed A 88 (s)	Edmond
McCasland, Hugh E u 9 (2)	Duncan
McCasland, Thomas Howard A 89 (1, 2)	Duncan
McClellan, Mildred A 103 (s, 2)	Norman
McClure, Florence Elizabeth A 126 (s, 1)	Sulphur
McClure, John Peebles A 100 (1, 2)	Sulphur
McClure, Lex Otis A u 17 (n1, 2)	Anadarko
McClure, Margaret F u (1, 2)	Norman
McClure, Sadie Bell F u (2)	Norman
McCollister, Cathrene X (n1)	Oklahoma City
McComic, Bonnie E u (n1)	Nowata
McComic, Rosa A 3 (n1, 2)	Nowata
McConneil, Archie Bernice M 4th (1, 2)	Falls Creek, Pa.
McCullough, Archibald Mason A 90 (s, 1, 2)	Norman
McDougal, Violet Audrey A 33 (1); F u 27 (1)	Sapulpa
McFerron, George E 12 (n1, 2)	Norman
McFerron, Nellie Jane A 114 (1, 2)	Norman
McGaha, Charles Peevey A 50 (1, 2)	Madill
McGee, Benjamin Jackson X (n1, 2)	Lawton
McGibbony, Eva C (n1, 2)	Stroud
McGrew, Hazel Belle A 13 (n1, 2)	Britton
McGuire, Bobbie A 29 (1, 2)	Waurika
McGuire, Maude F u 4 Piano 16 (1, 2)	Norman
McGuire, Pearl Cleo F u 12 Piano 24 (n1)	Oklahoma City
McGuire, Willie F u (1, 2)	Norman
McHenry, Florence Gennette F u (n2)	Oklahoma City
McInnis, Frances Stuart X (n1, 2)	Oklahoma City
McInnis, Viola X (n1)	Oklahoma City
McKinney, Clarence E 32 (1, 2)	Mangum
McKinney, James G (n1); L (1)	Durant
McKinnon, Mary Edna N (n1, 2)	Oklahoma City
McLane, Charles E 18 (n1, 2)	Chandler
McLennan, Gladys A u 16 (1, 2)	Moore
McMahon, Eugene A 103 (1, 2)	Lawton

McMakin, Florence Ila F g (1, 2) Norman
McMillan, Elizabeth A 124 (s, 1) Collinsville
McMillan, Mary Robinson A 32 (1, 2) Norman
McMurtrey, Marvin Spurgeon A 85 (s) Alva
McNeese, Charles Harold A 50 (1) Oklahoma City
McNeley, W. P., L 25 (1) Durant
Meacham, Edgar G 4 (1, 2) Clinton
Meacham, Mrs. Ray Ferrell F 77 (1, 2) Clinton
Meador, Girdie Emery A 55 (s) Norman
Meneeley, Emma X (n1) Oklahoma City
Merkle, Clara Ellen G 4 (s) Norman
Meyer, Arthur McCool A 17 (n1, 2); E 17 (1) Tecumseh
Meyer, Clifford Clinton A 40 (s, 1, 2) Norman
Meyer, Daniel Frederick A u 8 (ns) Norman
Meyer, Joe A 20 (1, 2) Hot Springs, Ark.
Meyer, Joe F u (n1, 2) Purcell
Meyer, Lois F u (n1, 2) Purcell
Meyer, Milton Frederick L 54 (1, 2) Norman
Meyer, Roger Cleveland C (n1, 2) Purcell
Miles, Charles Maple A (n1); L 13 (1, 2) Gate
Miles, Walter Howard A 65 (1, 2) Oklahoma City
Millhollan, Carrie X (n1) Oklahoma City
Miller, Joe J. G (n2) Oden, Ark.
Miller, Mallie Jo A 106 (s, 1, 2) Headrick
Miller, Mary Emelyn F 71 Piano 56 (1, 2) Norman
Miller, Nannie Lee G (s) Collinsville
Miller, Richard Keith A 103 (1, 2) Norman
Millikan, Delma F u (n2) Oklahoma City
Mills, Bess X (n1, 2) Oklahoma City
Mills, Rosalie C (n1, 2) Shawnee
Mills, Roy X (n1) Oklahoma City
Minton, Harvey Lee A 79 (1, 2) Enid
Mitchell, Greta Mabel A u 10 (s) Norman
Mitchell, John Blake A 99 (s, 2) Blanchard
Mitchell, Lela A 113 (s, 1, 2) Edmond
Mitchell, Lulu Grace N (s, 1, 2) Oklahoma City
Mitchell, Mary Belle N (n1, 2) McAlester
Mitchell' Roy Clyde E 146 (1, 2); A 120 (s, 1, 2) Norman
Mitchell, Witten McDonald A u (n1, 2) Shattuck
Mitschrich, Alta A 2 (ns) Lawton
Monahan, William L 13 (n1, 2) Edmond
Moncrief, Alvin A 13 (n1, 2) Checotah
Monical, Delfred John E 14 (1, 2) Norman

Monnet, Eugene Orton A 70 (1, 2)	Norman
Monnet, Florence F u 1 (1, 2)	Norman
Montgomery, Arthur Emerson L 70 (1, 2)	El Reno
Montgomery, Effie Irene C (1, 2); A 113 (s)	Norman
Montgomery, Homer E u 39 (1, 2)	Muskogee
Montgomery, Samuel James L 14 (n1, 2)	Bartlesville
Moomau, Hattie Poyntz F u (s, 1)	Norman
Moore, B. E., P u (n1)	Comanche
Moore, Helene Catherine F u (2)	Norman
Moore, Lenore Allen A u 15 (n1, 2)	Fort Worth, Tex.
Moore, Margaret Johnston A u (ns)	Lawton
Moore, Ruth Emma F u Piano 10 (n1, 2)	Purcell
Morgan, Clara Belle F 36 Piano 52 (1, 2)	Norman
Morgan, Edward M 32 (n1, 2)	Temple, Tex.
Morgan, George Dillon A 89 (1, 2)	Norman
Morgan, John A 25 (ns, 1, 2)	Norman
Morgan, Ruth A u 4 (ns)	Norman
Morris, Elinor X (n1, 2)	Guthrie
Morris, Glen Oliver L u 47 (1)	Norman
Morris, Lewis Reavley A 124 (1); G 16 (1, 2)	Norman
Morris, Maude Ethel A 107 (s, 1, 2)	Orlando
Morris, Ruth Simpson A 99 (s, 1, 2)	Norman
Morrison, Ethel A 54 (s, 1, 2)	Norman
Morrow, Ralph A u (n1); P u (2)	Wakita
Morrow, Walter Alexander A 43 (1, 2)	Norman
Mosely, Ray Ruel M 54 (1, 2)	Trousdale
Mowry, Eugene A u (ns)	Cold Springs
Mowry, Grace A u (ns)	Cold Springs
Mulkaren, Katherine F u (n2)	El Reno
Mulky, Francis A 13 (n1, 2)	Oklahoma City
Mullins, William Kinion A u 11 (s)	Clanton, Ala.
Mundy, Doris Genevra F g (1, 2); A 59 (1, 2)	Wanette
Murdock, Frank A 13 (n1, 2); F u (1, 2)	Cordell
Murray, David A 9 (ns)	Thomas
Mutsaers, Bernard X (1)	Oklahoma City
Myers, Launah Hortense A u 4 (ns); F u (s)	Apache
Myers, Walter Emanuel E u 18 (n1, 2)	Weatherford
Napier, T. G., A u 8 (ns)	Hazard, Ky.
Nash, Lady Olive A u 17 (s, 1)	Edmond
Nash, Mell Achilles A 95 (s)	Edmond
Neal, Ophe A 16 (n1, 2)	Norman
Neale, Virginia Lea F u 5 Voice 1 (n1, 2)	Coweta
Neely, Shade Durrett A u 17 (n1, 2)	Charlestown, Miss.

Nelson, Strauder, A 13 (n1)	Muskogee
Netherton, J. C., X (n1, 2)	Oklahoma City
Newby, Mrs. Lola North, F u (2)	Norman
Newby, Warner, A u 16 (n1, 2)	Norman
Newman, E. L., C (s, 1)	Sulphur
Nice, Leonard Blaine, M u 7 (n1, 2)	Norman
Nicholas, William, A u 17 (1)	Nowata
Nichols, Stella, A u 8 (ns)	Geary
Nichols, Victor, A u (n1, 2)	Guthrie
Nicholson, Carl Alvin, P 33 (1, 2)	Fairview
Nickle, Miss Charlie, A u 14 (1, 2)	Norman
Nicols, Georgia, A u (ns); F u (s)	Purcell
Niles, Ruth, X (n1)	Okemah
Nix, Winfred Mabel: A 124 (1)	Mitchell, S. Dak.
Norman, Alta, X (n1)	Oklahoma City
Norman, Bonny Ola, F 12 Piano 32 (n1, 2)	Oklahoma City
Norman, Crofford Wilson, A 81 (1, 2)	Randlett
Norman, Zoe, A 90 (s)	Oklahoma City
Northcutt, Marion John, L 13 (1, 2); A 78 (1)	Mangum
Norvell, Murvine, A 17 (n1, 2)	Wynnewood
Nunn, Wesley Irvin, A 17 (n1, 2)	Shawnee
Oakes, George, L 41 (1, 2)	Grove
Oakes, Malcolm Christie, E 116 (1, 2)	Waurika
O'Connell, Henry, C (ns 1, 2)	Oklahoma City
Odell, Abbie Venice, N (s)	Oklahoma City
Oderman, Harry Stephens, E 92 (1, 2); A (s)	Oklahoma City
Oldham, Alice Malone. F u (n 2)	Oklahoma City
Oldham, Laurie, L 14 (n1, 2)	Oklahoma City
Oliphant, Jean, F u (n2)	Norman
Orr, Abner Ross, G 6 (ns)	Dewey
Orr, John Roy, L 14 (1, 2); A 38 (1)	Rosemond, Ill.
Orr, Milo, E u 15 (n1, 2)	Oklahoma City
Ostenberg, Stella Cecelia, A 82 (1, 2); F u (2)	Claremore
Oster, Clifford Carl, E u 97 (1, 2)	Hobart
Osterhaus, Augusta, A u 4 (ns)	Norman
Osterhaus, Helen, F u (2)	Norman
Osterhaus, Katharyn, A 86 (s, 1, 2,)	Norman
Ottesen, Theodore Harvey, L u (n2)	Nevis, Minn.
Oxley, Lewis Benjamin, E u (n2)	Tonkawa
Pack, Samuel, C (s, 1, 2)	Blackwell
Packard, Ellen, X (n2)	Oklahoma City
Pardoe, Jessie, X (n1)	Oklahoma City
Parker, Ira Tom, P u 31 (1, 2)	Oklahoma City

Parkhurst, Cecil, L 13 (1) Norman
Parkhurst, Robert Moore, L 69 (1, 2) Norman
Parks, Ruth Ann, F 62 Piano 52 (1, 2) Tahlequah
Parkinson, Doris, X (n1) Oklahoma City
Parks, Jessie Livingstone, A 67 (ns); C (1, 2) Enid
Parks, William Early, P 50 (1, 2) Tipton
Parmalee, Arthur, A 84 (s); X (1, 2) Oklahoma City
Parsons, Frank, A 71 (s, 1) Civet
Parsons, Mrs. Nellie Hunt, A 50 (1, 2): F u Piano 24 (1) Norman
Parton, Shelton Williams, A 84 (s) Hollis
Patchell, Jewel, A 61 (1, 2) Pauls Valley
Patrick, Harriet, A 48 (1, 2) Stroud
Patterson, Emmett Ward, G 16 (n1, 2) Hennessey
Patterson, Gertrude, X (n1, 2) Guthrie
Patton, Frank, A 4 (n1, 2) Stilwell
Patton, Mary Emma, A u (s); F u (2) Norman
Patton, Pansy Patti, A 23 (s, 1, 2) Norman
Patton, Paul, A 13 (n1, 2) Norman
Pauly, Frank Robert, A u 9 (ns) Edmond
Paxton, Adelaide Francis, F u Violin 3 (1) Norman
Payton, Lela Elizabeth, G 6 (ns) Cement
Pealor, James Perry, E 38 (n2) Terrall
Pearl, Mrs. Musetta Markland, L u 71 (1, 2) Enid
Pearson, Essie, X (2) Oklahoma City
Peck, Mary Elizabeth, A 74 (s) Enid
Pelphrey, Mary Aline, A 65 (1, 2); F u Piano 19 (1, 2) Shawnee
Pembleton, Eugene William, E 54 (1, 2) Shawnee
Pendleton, Eva Marguerite, F u Violin 23 (1) Norman
Pendleton, Lucile Marguerite, F 40 Piano 34 (1, 2) Talala
Pendleton, Tivis M u 18 (n1, 2) Wichita, Kans.
Pensak, Max M u 22 (n1, 2) New York City
Perkins, Chester Henry M 44 (1, 2) Temple
Perry, Edith C (ns, 1, 2) Carmen
Peter, Bertha A 48 (ns, 2) Kingfisher
Peters, Frank A u 1 (ns) Drumright
Peters, Mrs. Hallie Spurgeon A u (ns) Drumright
Petty, Curtis A 71 (1, 2) Noble
Petty, Earl E u 76 (1, 2) Norman
*Pfeiffer, Harry A u (n1) Ardmore
Phelps, Elma X (n1, 2) Guthrie
Phelps, Joseph A u 17 (n1) El Reno
Philips, James Herbert E 55 (1, 2) Pauls Valley

Phillips, Leon Chase L 40 (1, 2) Arapaho
Phillips, Mary Lois A 111 (1, 2) Arapaho
Pickard, Ana P 101 (1, 2); A (s) Norman
Pickard, Lelia A u 14 (s, 1, 2) Norman
Pickerall, Lola Marie A 80 (s) Mangum
Pigg, Albert E u 33 (1, 2) Boynton
Piper, Charles Lester M u 4th (1, 2) Cullman, Ala.
Pitts, Dona Marie A 76 (1, 2) Norman
Pitts, Lee A 25 (s, 1, 2) Oklahoma City
Pitts, Marvel Olive, A 62 (1, 2) Norman
Plummer, Helen Mar, A 12 (n1, 2) Broken Arrow
Ponder, Charles Elmer, A 28 (1, 2) Mangum
Porter, Earle Sellers, G (2) Norman
Porter, Raymond, A 77 (s) Muskogee
Porter, Zella, X (n1, 2) Guthrie
Portugaloff, Joseph Jacob, A u (n1) New York City
Potterf, Elise, A u 17 (n1, 2) Ardmore
Potts, Lida, A u (s) Norman
Potts, Minnie Eula, A 48 (s, 1, 2); F 29 Piano 27 (1, 2) Frederick
Powell, Charles Morris, X (n1) Dallas, Texas
Power, M. H., A u 8 (ns) Chickasha
Powers, Mary Hamilton, A 8 (s) Mangum
Pownell, Admiral Munrow, E 64 (1, 2) Hennessey
Prentiss, Harley Merton, M 43 (1, 2) Bartlesville
Preskitt, Varney, P u 63 (1, 2) Norman
Price, Charles, A 17 (n1, 2) Asher
Price, Nora, N (s, 1, 2) Sayre
Prichard, Levi, X (n1) Oklahoma City
Proffitt, Ida May, A u 8 (s) Norman
Pruet, Mrs. Emma, F u 6 (ns) Norman
Pruett Robert Ray, A 108 (s) Norman
Pulse, Leta, X (n1, 2) Guthrie
Purcell, Marcia, F u 24 Piano 32 (1, 2) Lawton
Quaid, T. D. D., C (s, 1, 2) Tishomingo
Quarles, Alleen, A 13 (n1, 2) Fairfax
Quicksall, Carl, G 11 (s) Keota
Quigg, Alma Imogene, A 57 (n1, 2) Virginia, Ill.
Quigley, Hubert, L u (n1) Covington
Ragland, Jo, A 57 (n1, 2) Shawnee
Ralston, James, P u (n2) Orlando
Rammay, Edgar, L u (n1, 2) Keota
Randels, Ora, A 14 (n1, 2) Enid

Ratts, Mollie, X (n1)	Oklahoma City
Ray, Colonel Scudder, A (1, 2)	Gould
Rea, William Robert, G 2 (s)	Canute
Reasor, C. D,, E u 9 (n1, 2)	Shawnee
Redding, Cora, N (n2)	Oklahoma City
Redman, J. W., A u (ns)	Bluejacket
Redmond, Esther Lucile, A 17 (n1, 2)	Thomas
Reed, Bertha, C (s, 1)	Pryor
Reed, Frank, L 1 (1)	Oklahoma City
Reed, Freda, F 47 Piano 36 (1)	Oklahoma City
Reed, Howard Leonard, M 3rd (1, 2)	Dubois, Pa.
Reeves, Edward Henry, A u 26 (s)	Gould
Reeves, Nell Wilson, F u (ns); A u 4 (s)	Gould
Reid, Lewis, E u 14 (n1, 2)	Blair
Reid, Mary, A 43 (n1, 2)	Dallas, Texas
Reilly, Louis, L 14 (n1, 2)	Durant
Remmert, Elsie, F 10 Piano 8 (n1, 2)	Lone Wolf
Remund, Arthur, E u 46 (n1, 2)	Weatherford
Renshaw, Oliver, A 13 (n1, 2)	Hennessey
Revell, Rachel Hanes, M 11 (1, 2)	Norman
Reynolds, Floyd Johnson, A 31 (s, 1)	Norman
Reynolds, Kenneth Egbert, E 101 (1, 2)	Weatherford
Reynolds, Roy Alvin, L 42 (1, 2)	Norman
Rice, Edward, E 14 (n1, 2)	Hobart
Rice, Leslie, C (ns, 1, 2)	McAlester
Rice, Nora, N (s, 1, 2)	Oklahoma City
Rice, Olivia, A 72 (1, 2)	Walnut Grove, Mo.
Richards, Anna Myrtle, A 78 (1, 2)	Lindsay
Richards, Homer, E 54 (1, 2)	Cleveland
Richardson, Ivin, A 47 (1, 2)	Union City
Rickard, Beulah, A 113 (1)	Edmond
Rider, Charles Robert, A 54 (1, 2)	Madill
Rieger, Joseph, A u 4 (n1, 2)	Norman
Riley, Catherine, X (1, 2)	Oklahoma City
Riley, Fletcher Settle, A 91 (1, 2); L (2)	Lawton
Risen, Homer, A 9 (n1, 2)	Hooker
Risley, William Edgar, P 9 (n1, 2)	Hastings
Rittenhouse, Olive, X (1, 2)	Oklahoma City
Rivers, William, M u 4th (n1, 2)	Hampton, S. Car.
Roark, George, M 19 (1, 2); A 50 (s, 1)	Newton, Kansas
Robbins, Frank Williams, L 40 (1, 2); A 2 (1)	Shamrock, Tex.
Roberts, Sidney Arthur, L 70 (1, 2)	Chelsea
Robertson, Arthur, L 30 (1, 2)	Hulbert

Robertson, William, A u (n1) Ft. Gibson
Robey, Annie Laurie, A 107 (1, 2) Davidson
Robey, Grace Lucile, A 93 (1, 2) Davidson
Robinson, Allie Ruth, F u (n2) Norman
Robinson, Earl, A u (n2) Norman
Robinson, Ina Lee, X (n1, 2) Guthrie
Robinson, Robert, A 17 (n1, 2) Muskogee
Rodman, Florence, X (n1) Oklahoma City
Roff, Charles Luther, Jr., L 12 (n1, 2) Wayne
Rogers, Almer, C (s, 1) Bonham, Texas
Rogers, Neva, A 35 (1, 2); F u Piano 14 (1) Hume, Ill.
Rogers, Sherman, M 57 (1, 2); A 49 (s, 1) Springfield, Mo.
Rollins, Oliver Grady, L 24 (1, 2) Madill
Rosamond, William Sam, A 99 (ns) Walter
Rose, Zach, A 11 (n1, 2) Muskogee
Rosenstock, Carl, M u 4th (n1, 2) New York City
Ross, Edith, A 39 (ns) Chickasha
Rowe, Thomas, X (n1, 2) Oklahoma City
Rowe, Ural Alps, L 41 (1, 2) Blair
Ruble, Walter Jack, A 16 (n1, 2) Pawhuska
Rucker, Robert Harvey, A u 26 (1, 2) Norman
Runyan, Foy Anne, A 18 (s) Norman
Rupp, Rose Velva, A u 8 (ns) Tulsa
Russell, Christie, L 38 (1, 2) Warner
Russell, Edith, X (1) Oklahoma, City
Russell, Eula, A 81 (1, 2) McAlester
Russell, Luther, A 35 (1, 2) McLoud
Rutherford, Morton, A u (n1) Muskogee
Ryle, John Walton, E u 18 (n1, 2) Bokchito
Sadler, Lena Hylinda, F u 17 Voice 2 (1,2); A u 20 (s) Norman
Salman, Phinehas, M 29 (2) Portsmouth, Va.
Salmon, W. T., X (n1) Oklahoma City
Salter, Leslie, A 16 (n1, 2) Carmen
Salter, Lewis Spencer, A 75 (s) Carmen
Salwaechter, Christian Henry, E 17 (n1, 2) Carmen
Sams, Genevieve, F 11 Piano 24 (n1, 2) Nowata
Sanders, Jesse Thomas, A 124 (s, 1) Snyder
Sanford, Russell, L u 5 (n1, 2) Muskogee
Sapper, Herbert Victor Louis, A 147 (s) Hartford, Conn.
Sawyer, Mary, A 124 (s) Norman
Sawyer, Roger William, A 106 (1, 2) Norman
Scales, Pearl Ruth, A 76 (s) Calvin
Schafer, Harry, E u 3 (n1, 2) El Reno

Schiele, Bertha Louise, F 33 Violin 40 (s, 1, 2) Oklahoma City
Schimmels, Thomas Lawrence, P 49 (1, 2) El Reno
Schlabach, Frank Lyman, A 31 (n1, 2) Oklahoma City
Schmidt, Ludwig, E u 18 (n1, 2) Sapulpa
Schofield, Minnie X (n1) Comanche
Schoggen, Walter Bralley A 48 (1, 2) Crowder
Scott, Minnie Lee A u 6 (s) Noble
Scott, Nadine F u (ns) Noble
Scroggs, Schiller C (ns, 1, 2) Fort Logan, Colo.
Scruggs, Juanita Gladys A 14 (s, 1, 2) Norman
Scruggs, Mamie X (n1) Oklahoma City
Scruton, J. W., X (n1, 2) Oklahoma City
Sears, Goldia Joy C (ns, 1, 2) Grandfield
Seeharn, Ida X (n1) Oklahoma City
Selders, Raymond Everett A 13 (n1); E (2) Lawton
Sellers, Avis A 9 (s, 1, 2) Norman
Settle, Bessie A 17 (n1, 2) Wynnewood
Sevey, William X (n1) Lawton
Seymour, Francis A 47 (n1, 2) Amarillo, Texas
Shapard, Charles Bell A 101 (1); L 13 (1); C (2) Pawnee
Sharp, Eugene Grant A 30 (1, 2) Guthrie
Sharp, John Fletcher A 80 (1, 2) Oklahoma City
Shaw, Mrs. Ray, A u (n2) Wakita
Shead, Celeste A u (ns) Norman
Shead, Orson Keith E u (n2) Norman
Shead, Ralph Brownell F 105 (1, 2) Norman
Sheeks, May C (ns, 1, 2) Bristow
Sheldon, Carl Denton A 5 (n1, 2) Norman
Sheldon, George Lawson A 10 (n1, 2) Wayside, Miss.
Sheldon, Seward Ross A 112 (s, 1, 2) Cherokee
Shepard, Fred A u (n1) Marble City
Shepherd, Leon X (n1) Oklahoma City
Shepherd, Lottie X (1, 2) Oklahoma City
Shepler, Fred Butler A 112 (1, 2) Lawton
Sheppard, Earl Amond A 17 (1, 2) Cordell
Sheppard, Hubert A 76 (s) Norman
Sherrow, Fred William L u 40 (1, 2) Springfield, Mo.
Shinn, Mrs, J. H., F u (n1) Muskogee
Shinn, Lita Louise F u (n1) Muskogee
Short, Lilly Jane X (1) Oklahoma City
Shriner, Richard Floyd P (n2) Hobart
Shuff, Edna X (n1, 2) Denver, Colo.
Shuff, Harvey Oliver A 97 (s) Piedmont

Shultz, Bennie E u 18 (n1, 2) Watonga
Shultz, Maude F 34 Piano 24 (1, 2) Mulhall
Shultz, Mrs. Minnie, F u (n2) Norman
Shultz, Will Geoffrey, A 44 (1, 2) Lahoma
Shutt, Georgia, A 17 (n1, 2); F u Voice 4 (1, 2) Pryor
Shuttee, Lucile, A 17 (n1, 2) El Reno
Shutts, Katherine, G 35 (s) St. Joseph, Mo.
Simpkins, John Walter, A u (ns); C (1, 2) Reagan
Simpson, Fred, A 75 (n1); E (1) Manitou
Six, Ray, A 13 (1, 2) Norman
Skinner, Howard Burris, M (1) Weleetka
Skow, Emma Elnora Maria, X (1) Oklahoma City
Slaughter, Dell Pembleton, X (1, 2) Oklahoma City
Sledge, John Byron A 68 (1, 2) Ada
Small, Frank, A 61 (1) Shawnee
Smalley, Ellie, A 12 (n1, 2) Ringling
Smiser, Raybourn, A u 14 (1); L u 48 (1, 2) Oklahoma City
Smith, Amma, A 87 (s) Muskogee
Smith, Blanche Mabel, F 6 (s) Norman
Smith, Corley, A 22 (n1) Okmulgee
Smith, Ernest Jerome, A 16 (n1, 2) Norman
Smith, Ethel Maude, F 44 Piano 52 (1, 2) Guthrie
Smith, Frank Kye, A 94 (s, 1, 2) Kiowa
Smith, Hearn Matthew, A 21 (ns, 1, 2) Norman
Smith, Hubert, L 13 (n1, 2) Dewey
Smith, Mrs. Jessie Venner, A u 14 (n1, 2) Norman
Smith, Juliette Maude, C (ns, 1, 2) Bethany
Smith, Leah Belle, A u 48 (s) Norman
Smith, Micah Pearce, A 126 (s, 1) Chickasha
Smith, Melba, F u (1) Norman
Smith, Myrtle Cunningham, X (n1) Lawton
Smith, Ruth Esther, A 50 (1, 2) Norman
Smith, Talmage Austin, A 112 (s, 1, 2) Kiowa
Smith, Wilson Evan, A 11 (1, 2) Moore
Smythe, Robert Wade, A u 17 (n1, 2) Marlow
Snedaker, Dorothy, A 17 (n1, 2) Wagoner
Sneed, Lee Vincent, A 25 (1) Oklahoma City
Snell, Besse Ethelyn, A 124 (s) Purcell
Snell, Ruth, A 19 (n1, 2) Norman
Snider, Lafayette Benjamin, G 17 (1) Norman
Snider, Lucile, A 118 (s, 1, 2); F 56 Voice 56 (1, 2) Norman
Snyder, George Wilson, E 16 (n1, 2) Broken Arrow
Snyder, Leslie, E u 43 (1) Ponca City

Sonnenschein, Louis, A 34 (1, 2)	Oklahoma City
Sorey, Tom, E 16 (n1, 2)	Oklahoma City
Soutar, Richard Gray, M u (n2)	Lake Geneva, Wis.
Souter, J. Ellis, A 27 (n1, 2); P 8 (1)	Magnolia, Ark.
Spangler, Ralph Stonehouse, A 46 (1, 2)	Frederick
Sparks, Jack, A (n1)	Pauls Valley
Speakman, Howard, L u 66 (1, 2)	Wellston
Speer, Adelle, X (n1, 2)	Guthrie
Speidel, Grace, X (n1)	Oklahoma City
Stacy, Dean Moore, A 105 (2)	Chickasha
Stafford, Lily, A 17 (ns)	Lawton
Standley, Beulah, F u (n2)	Okemah
Stapler, Nell Morgan, F u (n1)	Tahlequah
Staples, Anna Florence, F u 4 (n1, 2)	Colony, Kansas
Stater, Gordon, L 14 (n1, 2)	Oklahoma City
Steckel, Edith Mildred, A 70 (1, 2)	Norman
Steedman, Aubrey Earl, E u 18 (n1, 2)	Hobart
Steele, Charles Bridgman, A 94 (1,2); L 40 (1, 2)	Keller
Steele, Lee, A 41 (1, 2)	Keller
Stephens, Bettie, G 2 (s)	Norman
Stephens, Charles, A 12 (n1, 2)	Norman
Stephens, Lela, A 25 (s, 1, 2)	Norman
Stephens, Nina, G 4 (1)	Norman
Stephens, Sallie, N (s, 1, 2)	Norman
Stephens, Winfred Earl, P 15 (n1, 2)	Hastings
Stevens, Razzie, A 12 (n1, 2)	Lexington
Stevenson, Alfred, L u 70 (1, 2)	Stratford
Stewart, Curtis, A 29 (1, 2)	Oklahoma City
Stewart, Mary, X (n1, 2)	Oklahoma City
Stewart, Oland, A 9 (n1, 2)	Hobart
Stigler, Hettie Lee, F u 15 Piano 32 (1)	Stigler
Stigler, William, C (s, 1, 2)	Stigler
Stiles, Jessie, L 39 (1, 2)	Pryor
Stinson, Robert Wilcox, E 134 (1, 2); A (s)	Mountain View
Stockwell, Paul, E u 18 (n1, 2)	Alva
Stone, Walter, L 13 (n1, 2)	Norman
Storm, Willis, A 7 (n1, 2)	Oklahoma City
Strader, Simon Ernest, M 45 (1, 2)	Yukon
Strahan, Hubert, P 49 (1, 2)	Heavner
Strosler, Virginia Catherine, A 22 (s, 1, 2)	Oklahoma City
Strother, Grover Dudley, A 39 (1, 2)	Altus
Strother, Virginia, F u 4 Piano 24 (n1, 2)	Altus
Stubblefield, Mae, X (n1, 2)	Lawton

Stubbs, Gerald, A 13 (n1, 2) Atoka
Sturgeon, Vivian Virginia, A u 17 (n1, 2) Thomas
Sugg, A. I., A 12 (n1, 2) Lone Wolf
Sullivan, Cornelia, X (1, 2) Oklahoma City
Sullivan, Paul Dodson, A 68 (1, 2) Lone Grove
Sullivan, Ruth, A 62 (1, 2) Lone Grove
Sullivant, Jessie Ruby, F u Piano 6 (1) Norman
Sullivant, Roy, A 42 (1) Norman
Sunday, Verna, N (n2) Oklahoma City
Sutton, Paul, L 13 (n1, 2) Claremore
Swatek, Clara, A 96 (n1, 2) Oklahoma City
Synnott, Mary Dorothy, A u 13 (s) Shawnee
Taggart, Nannie Ellen, A 7 (n1, 2) Enid
Tague, John, A 76 (1, 2) Lawton
Tait, Columbia Downing, X (n1,) Oklahoma City
Taliaferro, Beauford Henry, A 17 (n1, 2) Madill
Tatum, James Lewis, A 15 (ns, 1, 2) Devol
Taylor, Beulah, A 36 (s, 1, 2) Snyder
Taylor, Charles, C (ns, 1, 2) Fairview
Taylor, Edward Raymond, A 17 (n1, 2) Wapanucka
Taylor, Lottie Orr, A 64 (s, 1, 2) Norman
Taylor, Martha Idella, A u 6 (ns) Norman
Taylor, Ross Alva, E u 69 (1) Snyder
Tebbe, Gerald Stamper, A 96 (s, 1, 2) Perry
Thacker, Paul, A 83 (n1, 2) Oklahoma City
Thatcher, Lucile, X (n1) Oklahoma City
Thoburn, Mary Eleanore, A 34 (1, 2); F 32 Piano 8 (1, 2) Norman
Thomas, Chester Reams, A 120 (1, 2) Tulsa
Thomason, Frank, M 54 (1, 2); A 32 (s) Chandler
Thompson, Clyde Thomas, C (n1, 2) Muskogee
Thompson, Harry, C (s, 1) Lawton
Thompson, Miller, P 15 (n1, 2) Norman
Thomsen, Gosche, X (1, 2) Oklahoma City
Thornton, Charles Garner, L u 13 (n1, 2) Edmond
Thurlow, Evelyn, F u (n1) Norman
Tibbits, Fred, A 73 (n1, 2) Crescent
Tillotson, Delos, A 8 (n1, 2) Nowata
Tittle, Lem Hensley, L u 76 (1, 2); A u (2) Mangum
Titus, C. B., C (s, 1) Cherokee
Titus, Edith, C (s, 1) Cherokee
Toback, Samuel, A 2 (n1, 2) Brooklyn, N. Y.
Toberman, John Philip, L 70 (1, 2) Norman

Todd, Dana Lee, A 17 (n1, 2) Oklahoma City
Todd, Harrison, A u (n1) Martha
Tomlinson, Earl, A u 4 (ns, 2) Lawton
Tribbey, Cy, A 33 (n1, 2) Tonkawa
Trosper, Ray, A (n2) Oklahoma City
Trout, Lena Pearl, G (s) Norman
Trout, Lora, A u 4 (ns) Norman
Trout, Vinnie, A u 12 (1) Norman
True, Laurel May, A 104 (s, 1, 2); F u Piano 4 (1) Oklahoma City
Trunk, Matilda, A 77 (s) Weleetka
Tucker, Andrew Lewis, A 48 (1, 2) Norman
Tucker, James Daniel, E u 24 (1, 2) Roosevelt
Turner, Ethel Ione, A 51 (n1, 2) Oklahoma City
Turvey, Esther Nora, F u 9 (n1, 2) Haskell
Tyler, Minnie, A u (n1) Norman
Unzner, Isabella, A 50 (1, 2) Shawnee
Uri, Hubert Nicholas, A 47 (1, 2) Okmulgee
Usen, Louis, M u (n1) Brooklyn, N. Y.
Vandiver, Grace, A u (n2) Oklahoma City
Van Eaton, Charles L 13 (n1, 2) Ft. Cobb
Van Eaton, Marjory Marie, A 14 (2) Ft. Cobb
Van Horn, Chloris, X (n1) Oklahoma City
Van Noy, Walter. C (s, 1) Tishomingo
Van Slyke, Elsie, A 24 (n1, 2) Tonkawa
Van Slyke, Frank Eugene, A 97 (s) Porum
Vaught, Maude, F u (ns) Comanche
Vernor, William Miller, E 92 (1, 2) Ardmore
Vincent, Duke William, M 54 (1, 2) Mutual
Virgin, Mary Lorette, A u 22 (s) Norman
Vowell, Myrtis, A u (ns) Norman
Voss, Gertrude Anna, F u (s, 2) Norman
Wade, Lisby Lucius, M 54 (1, 2); A 128 (s, 1, 2) Ryan
Wade, Victor, L 14 (n1, 2); A 2 (1, 2) Batesville' Ark.
Wagner, Florence, A 80 (1, 2) Monett, Mo.
Wails, Charles Edgar, P u 36 (1) Norman
Waldrep, Thomas Carnes, L 55 (1, 2) Shawnee
Walker, Donald Edward, A 109 (1, 2) Jefferson
Walker, Helena Maude, F 40 Violin 21 (1, 2); A 34 (2) Jefferson
Walker, Lucian, C (n1, 2) Tulsa
Walker, Mary Clyde, A u 8 (ns); C (1) Ft. Gibson
Walker, Robert Scott, A 40 (s, 1, 2) Norman
Walker, William Archibald. P 46 (2) Holdenville
Wallace, Alvin Burie A 43 (s) Chickasha

Wallace, Anna X (n1, 2) Oklahoma City
Wallace, Archie E (n1, 2) Hugo
Wallace, Bert A 13 (n1) Holdenville
Wallace, Charles Adelbert G 4 (ns) Enid
Wallace, Marie Florence A 28 (1, 2) Oklahoma City
Wallace, Otto A 5 (n1, 2) Coalgate
Walter, Otto Wallace E u 19 (n1, 2) Tonkawa
Ward, Fred A 16 (n1, 2) Erick
Ward, J, Paul L 14 (n1, 2); A (1) Batesville, Ark.
Wardner, Julia Alberta A 124 (s) Norman
Warner, Hiram Alford A 129 (s, 1, 2); E 69 (1, 2) Ryan
Warren, Merl X (n1) Lawton
Watson, Joseph Dent E 128 (1, 2) A (s) Oklahoma City
Watson, Mary A u 8 (ns); F u (s) Ft. Gibson
Watson, Wilma A u 8 (ns) Ft. Gibson
Watt, Everett E u 4 (n1) Nowata
Wax, Edgar A 106 (s, 1, 2) Waurika
Weathers, Patrick Henry X (n1) Oklahoma City
Weaver, Floy A 117 (1) Oklahoma City
Webb, Irma Marguerite A 72 (s) Norman
Webb, Mary A 13 (n1, 2) Tipton
Webb, Roy Abner M 57 (1, 2) Oklahoma City
Webb, William Riffe, L (n2) Tulsa
Webster, Calla Vandiver, A 6 (2) Norman
Webster, Tine Hayes, A 12 (2) Norman
Weedn, Henry John, M 3rd (1, 2) Norman
Weir, Anna Mabel, F u (n1, 2) Norman
Weir, Ralph Leon, E 53 (1, 2) Norman
Weis, Effie Edward, P 47 (1, 2) Higgins, Texas
Welch, Oscar Lee, E 114 (1, 2) Purcell
Welch, Percilee, A u 11 (s) Norman
Welden, Carl Roy, P u 15 (1, 2); A u 15 (s) Norman
Welsh, Mary, X (n1, 2) Lawton
Wesson, John Edward, A u (n2) Sentinel
West, Willis Kelly, M 4th (1, 2) Oklahoma City
Westcott, Bess, A (n1, 2) Oklahoma City
Westervelt, Lucile, A 26 (1, 2); F u 16 Piano 8 (1, 2) Oklahoma City
Westfall, Chester Harold, A 80 (1, 2) Chickasha
Wetzel, Otto Kramer, A 48 (1, 2) Oklahoma City
Wetzel, Walter Newton, A 40 (s); L 22 (1, 2) Oklahoma City
Whaley, Twitty, A 13 (n1, 2) Checotah
Wheatley, Albert, E u 14 (n1, 2) Yukon

Wheeler, Edna Emma, F u 4 Voice 20 (n1) Pawhuska
Whinery, Frank William, G 18 (s) Perry
Whisenant, J. Barney, A 37 (1, 2) Duncan
Whistler, Lillian, A u (ns) Havana, Kansas
Whistler, Mildred, A u (ns) Havana, Kansas
Whitaker, Clarence, A 17 (n1, 2) Pryor
White, Ben Samuel, E u 22 (1) Wynnewood
White, Gordon Wells, A 30 (1, 2) Altus
White, Henry George, A 70 (1, 2) Chickasha
White, Herbert Earl, A 100 (1, 2) Chickasha
White, Ira Elmo A (n2) Altus
White, Kathleen X (n1) Comanche
White, Lillian Ethel A 90 (1, 2) Hartshorne
White, Stuart A 17 (n1, 2) Clinton
White, Winnie A 31 (1, 2); F u (1) Chickasha
Whitener, Edward A u 4 (ns) Harrisburg
Whitley, Mrs. Ada Vaughan A 72 (s) Tupelo
Whitley, Clarence Lyndon A u 14 (s) Tupelo
Whitwell, Alta N (s, 1, 2) Norman
Whitwell, Clyde Herbert E u 37 (1, 2) Norman
Whitwell, Earle, A 77 (1, 2) Norman
Whitwell, Ray Fullerton A 29 (1) Norman
Wickham, Virginia A 104 (ns, 1, 2) Norman
Wickizer, Lucile Grace F u 1 (1, 2) Norman
Wickman, Elinor Ruth A u 12 (n1, 2); F u (1) Fletcher
Wickman, Maud X (1, 2) Fletcher
Wiggins, Lassie A 17 (n1, 2) Wetumka
Wiggins, Nell A 115 (1, 2) Oklahoma City
Wilcox, Frank Luedde E 51 (1) Norman
Willhite, John A 9 (ns) Elgin
Wilhite, Lee M 3rd (1, 2) Helena
Williams, Alice Lee C (s, 1) Wilburton
Williams, Elizabeth N (n2) Oklahoma City
Williams, G. J. C (n1, 2) Edmond
Williams, Grace A 109 (1, 2) McAlester
Williams, Guy Yandall G (2) Norman
Williams, Herbert A u 17 (n1, 2) Oklahoma City
Williams, Leitus A 53 (s, 1, 2) Norman
Williams, Mack E 18 (n1, 2) Norman
Williams, Raymond Bezae F u 27 Voice 18 (s) Norman
Williams, Ruth A 17 (n1, 2); F u (1) McAlester
Williams, William Franklin A 2 (2) Ardmore
Williamson, Bessie Matilda X (n1, 2) Guthrie

Wilmoth, Ray A u (n2) Elkins, W. Va.
Wilson, Edward Bennett E 41 (1); A 38 (1, 2) Calumet
Wilson, Ethel A 116 (s); C (1, 2) Enid
Wilson, Kenneth M 3rd (n1, 2) Oklahoma City
Wilson, Lena F 13 Piano 24 (n1, 2) Calumet
Wilson, Lewis Otis A 103 (ns, 1, 2) Norman
Wilson, May Ella A 51 (1, 2) Calumet
Wilson, Opal Belle F u (n2) Purcell
Wingate, Macy F 10 Piano 2 (1, 2) Norman
Winningham, Guy P 15 (n1, 2) Thomas
Winsor, Mildred Alice A 106 (1, 2) Frederick
Winter, Leland A 50 (1, 2) Vici
Winton, George Marvin G 2 (ns) Morrisville, Mo.
Winton, James Fielding G 7 (ns) Morrisville, Mo.
Wise, Kathryn A u (n2) Norman
Witcher, Edward Kitchell M u 3 (1) Norman
Witcher, Elizabeth A 49 (1, 2) Olney, Ill.
Witt, Walter X (n1) Oklahoma City
Witty, Ralph A u 12 (n1) Holdenville
Wolcott, Clint E u 14 (n1, 2) Olustee
Wolfe, Charles A u 2 (ns) Aline
Wolfe, Charles Leo E 76 (1, 2) Newkirk
Woll, James Calaway M 54 (1, 2) Sallisaw
Wood, Homa L 65 (1, 2) Blackwell
Wood, Okla G 16 (n1, 2) Blackwell
Wood, Virgil Oliver A 98 (1, 2) Blackwell
Woodruff, Edward A (n1) Stilwell
Woods, Roy Ulysses L 13 (1, 2) Verden
Woods, Sam Hubert E 39 (1, 2) Altus
Woodworth, Miss E., A 17 (n1, 2) Cashion
Woody, John Leonard A 29 (1) Madill
Woolsey, B. Fred A 50 (1, 2) Hennessey
Woolsey, Everest Verne A 97 (1, 2) Hennessey
Wright, Andrew Clemmon A 18 (ns, 1, 2) Baird
Wright, Hugh Dell L 36 (1, 2) Comanche
Wright, Norman X (1) Oklahoma City
Wyand, Russel A 50 (1, 2); F u (2) Woodward
Wymore, Carrie F u 10 (1) Norman
Yates, Fred Lee L 14 (2) El Dorado
Yeager, Anna C (n2) Duncan
Yeakel, Earle Leroy A 124 (s) Norman
Yeokum, Leona X (1, 2) Oklahoma City
Young, D., L 7 (n1) Fort Madison, Iowa

Young, Francis Edgar L 20 (1)	Norman
Young, Nannie A u 8 (ns)	Billings
Young, Omer L 11 (1, 2)	Norman
Young, Pearl F u 44 (1, 2)	Norman
Zink, John Steele A 49 (1, 2)	Norman
	Grand Total 1682

* Deceased

COUNTIES AND STATES REPRESENTED IN THE UNIVERSITY DURING 1914-15

Adair	2
Alfalfa	25
Atoka	5
Beaver	2
Beckham	6
Blaine	11
Bryan	9
Caddo	13
Canadian	22
Carter	19
Cherokee	5
Choctaw	6
Cleveland	352
Cimarron	0
Coal	7
Comanche	44
Cotton	13
Craig	10
Creek	14
Custer	30
Dewey	2
Delaware	1
Ellis	4
Garfield	24
Garvin	26
Grady	32
Grant	14
Greer	14
Harmon	10
Harper	0
Haskell	5
Hughes	14
Jackson	27
Jefferson	12
Johnson	9
Kay	37
Kingfisher	15
Kiowa	26
Latimer	2
LeFlore	6
Lincoln	24
Logan	46
Love	1
Major	2
Marshall	10
Mayes	7
McClain	19
McCurtain	2
McIntosh	2
Murray	11
Muskogee	24
Noble	9
Nowata	10
Okfuskee	19
Oklahoma	246
Okmulgee	5
Osage	7
Ottawa	2
Pawnee	9
Payne	3
Pittsburg	13
Pontotoc	10
Pottawatomie	40
Pushmataha	1
Roger Mills	3
Rogers	11
Seminole	3
Sequoyah	6
Stephens	22
Texas	4
Tillman	15
Tulsa	29
Wagoner	5
Washington	11
Washita	9
Woods	6
Woodward	3

States

Alabama	8
Arkansas	10
California	1
Colorado	3
Connecticut	1
Florida	1
Georgia	0
Illinois	7
Iowa	7
Kansas	29
Kentucky	5
Louisiana	1
Michigan	1
Minnesota	1
Mississipp	2
Missouri	18
New Jersey	3
New Mexico	5
New York	13
N. Carolina	1
Ohio	1
Pennsylvania	3
South Carolina	2
South Dakota	1
Tennessee	2
Texas	26
Virginia	1
Washington	1
Wisconsin	2

Foreign Countries

Canada	1
Mexico	1
Russia	1

SUMMARY OF STUDENTS BY SCHOOLS AND CLASSES, 1914-1915

		Total, Duplicates excluded
THE GRADUATE SCHOOL (Exclusive of Summer Session)	22	
Summer Session	39	59
THE COLLEGE OF ARTS AND SCIENCES		
Seniors	83	
Juniors	97	
Sophomores	122	
Freshmen	263	
Unclassified	111	
Extension Classes	155	
Summer Session	336	1133
THE SCHOOL OF FINE ARTS		
Graduate Students	3	
Seniors	2	
Juniors	5	
Sophomores	12	
Freshmen	35	
Unclassified	130	
Summer	42	204
THE SCHOOL OF LAW		
Third Year	18	
Second Year	29	
First Year	70	
Unclassified	29	146
THE COLLEGE OF ENGINEERING		
Seniors	7	
Juniors	10	
Sophomores	18	
Freshmen	35	
Unclassified	60	130
THE SCHOOL OF MEDICINE		
Seniors	17	
Juniors	16	
Sophomores	23	
Freshmen	21	
Unclassified	18	
Training School for Nurses	20	
Training School for Nurses (Summer)	12	117
THE SCHOOL OF PHARMACY		
Four Year Course	2	
Second Year, Two Year Course	11	
First Year, Two Year Course	17	
Unclassified	17	47
CORRESPONDENCE	82	82

GENERAL SUMMARY

Grand total	1921
Summer Session (1914)	420
Grand total excluding duplicates	1682
Total excluding non-resident students	1463
Total in residence exclusive of summer session	1203

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The University Bulletin has been established by the university. The reasons that have led to such a step are: first, to provide a means to set before the people of Oklahoma, from time to time, information about the work of the different departments of the university; and, second, to provide a way for the publishing of departmental reports, papers, theses, and such other matter as the university believes would be helpful to the cause of education in our state. The Bulletin will be sent post free to all who apply for it. The university desires especially to exchange with other schools and colleges for similar publications.

Communications should be addressed:

THE UNIVERSITY BULLETIN
University Hall,
Norman, Oklahoma.

Oklahoma University Press.

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MONTHLY BULLETIN, UNIVERSITY OF OKLAHOMA

NEW SERIES NO. 106. MARCH 1916

BULLETIN OF THE UNIVERSITY OF OKLAHOMA

GENERAL CATALOGUE

1915-1916

WITH ANNOUNCEMENTS FOR 1916-1917

APR 1917

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NORMAN, OKLAHOMA
March, 1916

The University Bulletin, published by the university, is issued monthly. Entered at the postoffice at Norman, as second class matter, under act of congress of August 24, 1912.

The University of Oklahoma
MONTHLY BULLETIN

General Catalogue
1915-1916

PUBLISHED MONTHLY BY THE UNIVERSITY
NORMAN, OKLAHOMA.

1915

SEPTEMBER

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1916

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AUGUST

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1915-16	THE UNIVERSITY YEAR	1916-17
1915	First Semester	1916
Sept. 21, 22	Entrance examinations. Registration.	Sept. 19, 20
Sept. 23	Class work begins, 8:10 a. m.	Sept. 21
Sept. 29	President's annual address, 10:00 a. m.	Sept. 27
Oct. 1	President's reception to students and faculty.	Sept. 29
Oct. 30	Fall Home-Coming of Alumni and Former Students.	Oct. 28
———	General election.	Nov. 7
Nov. 24	Thanksgiving recess begins, 12:00 m.	Nov. 29
Nov. 29	Class work resumed, 8:10 a. m.	Dec. 4
Dec. 17	Christmas recess begins, 5:30 p. m.	Dec. 20
1916		1917
Jan. 3	Class work resumed, 8:10 a. m.	Jan. 3
Jan. 31	Mid-year examinations begin.	Jan. 29
	Second Semester	
Feb. 4	Annual faculty concert, School of Fine Arts, 8:00 p. m.	Feb. 2
Feb. 4, 5	Entrance examinations. Registration.	Feb. 2, 3
Feb. 7	Class work begins, 8:10 a. m.	Feb. 5
Feb. 22	Washington's birthday.	Feb. 22
Apr. 20	Easter recess begins, 5:30 p. m.	Apr. 5
Apr. 25	Class work resumed, 8:10 a. m.	Apr. 10
May 1	Final date for submitting finished theses.	May 1
May 4-6	Interscholastic Meet.	May 3-5
May 30	Memorial day.	May 30
June 1	Final examinations end.	June 1
June 4	Baccalaureate Sunday.	June 3
June 5	Commencement recital, 8:30 p. m.	June 1
June 6	Senior class play, 8:30 p. m.	June 2
	Final date for reporting seniors' grades. Noon.	June 2
June 7	Commencement concert, 8:30 p. m.	June 4
June 8	Commencement exercises, 10:30 a. m.	June 5
	Alumni luncheon, 12:45 p. m.	
	Summer Session	
June 9, 10	Entrance examinations. Registration.	June 7, 8
June 12	Class work begins, 7:15 a. m.	June 11
July 4	Independence Day.	July 4
Aug. 4	Close of Summer Session.	Aug. 3
	August convocation, 8:00 p. m.	

Holidays are general election days, Thanksgiving, Christmas and Easter recesses, Washington's birthday, Memorial day and the Saturday of the Interscholastic Meet, and in the Summer Session, Independence day.

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State Superintendent of Public Instruction

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STRATTON DULUTH BROOKS, A. B., Michigan, 1896; A. M., Harvard, 1904; LL. D., Colby, 1912.
President of the University, (1912.)

EDWIN DEBARR, B. S., Michigan Agricultural College, 1891; M. S., 1893; Ph. B., Michigan, 1892; Ph. D., 1899.
Vice-President of the University, Director of the School of Chemical Engineering, Professor of Chemistry, (1892), 1911.

JAMES SHANNON BUCHANAN, B. S., Cumberland University, 1885.
Dean of the College of Arts and Sciences, Professor of History, (1895), 1909.

ALBERT HEALD VAN VLEET, B. S., Wisconsin, 1895; M. A., Ph. D., Leipzig, 1897.
Dean of the Graduate School, Professor of Botany, 1898, (1899), 1914.

JAMES HUSTON FELGAR, A. B., Kansas, 1901; B. S., Armour Institute of Technology, 1905; M. E., 1911.
Dean of the College of Engineering, Professor of Mechanical Engineering, 1906, (1907), 1909.

FREDRIK HOLMBERG, B. M., Bethany College, Lindsborg, Kan., 1899.
Dean of the School of Fine Arts, Professor of Music, 1903, (1907), 1913.

JULIEN CHARLES MONNET, A. B., Iowa, 1892; LL. B., 1893; A. M., 1905; LL. B., Harvard, 1908.
Dean of the School of Law, Professor of Law, (1909).

NOTE—Members in each group are printed in the order of appointment to that group. The first date following the title is the date of first appointment to the university; the date in parentheses is the year of appointment to the present rank (professors and associate professors are ranked together); the last date is the year of appointment to the present position.

All addresses are at Norman unless otherwise specified.

CHARLES HOWARD STOCKING, Ph. C., Michigan, 1907; B. S., Michigan, 1909.
Dean of the School of Pharmacy, Professor of Pharmacy, (1912.)

ROY GITTINGER, B. A., Oklahoma, 1902; A. M., Chicago, 1906.
Dean of Undergraduates, Professor of English History, 1902, (1905), 1915.

LEROY LONG, M. D., Louisville Medical College, 1893.
Dean of the School of Medicine, Professor of Surgery, (1915).
608 Colcord Building, Oklahoma City.

Professors and Associate Professors

†JOSEPH FRANCIS PAXTON, A. B., Missouri, 1891; A. M., Harvard, 1895.
Professor of Greek and Classical Archaeology, (1896), 1906.

JAMES WELLINGS STURGIS, A. B., Michigan, 1896; A. M., 1897; Ph. D., 1910.
Professor of Latin, (1900), 1905.

SAMUEL WATSON REAVES, B. S., North Carolina, 1899; A. B., Cornell, 1900; A. M., Chicago, 1912; Ph. D., Chicago, 1915.
Professor of Mathematics, (1905).

SARDIS ROY HADSELL, B. A., Oklahoma, 1904; A. M., Harvard, 1907.
Professor of the English Language, 1904, (1907), 1910.

GUY YANDALL WILLIAMS, B. A., Oklahoma, 1906; M. A., 1910; M. S., Chicago, 1911; Ph. D., Illinois, 1913.
Professor of Physical Chemistry, 1906, (1908), 1914.

HENRY HIGGINS LANE, Ph. B., DePauw, 1899; A. M., Indiana, 1903; Ph. D., Princeton, 1915.
Professor of Zoology, 1906, (1908).

JEROME DOWD, B. A., Trinity College, North Carolina, 1882; M. A., 1896.
Director of the School of Commerce and Industry, Professor of Sociology and Economics, 1907, (1908), 1913.

†THEODORE HAMPTON BREWER, B. A., Vanderbilt, 1896; M. A., 1907.
Director of the School of Journalism, Professor of English Literature, (1908), 1913.

LUCILE DORA, A. B., Christian College, 1898; M. A., Hellmuth College, London, Ontario, 1901.
Professor of the Romance Languages and Literatures, (1908), 1910.

*†WALTER LEANDER CAPSHAW, M. D., St. Louis University, 1907.
Professor of Anatomy, (1908).

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†On leave of absence, 1915-16.
*Deceased, December 25, 1915.

LOUIS ALVIN TURLEY, B. S., Idaho, 1903; A. M., Harvard, 1906.
Assistant Dean of the School of Medicine, Professor of Histology and Pathology, (1908), 1915.

MONROE ALLEN FLOYD, B. S., A. B., Missouri, 1905; A. M., Chicago, 1913
Associate Professor of History, (1908).

DANIEL WEBSTER OHERN, A. B., Drake University, 1898; A. M., West Virginia, 1899; Ph. D., Johns Hopkins, 1907.
Special Lecturer on Oklahoma Geology, with rank of Professor, (1908), 1912.

HAROLD VEATCH BOZELL, B. S., Kansas, 1908.
Director of the School of Electrical Engineering, Professor of Electrical Engineering, 1908, (1909), 1911.

JOHN HENRY VOSS, A. B., Nebraska, 1902; M. A., Oklahoma, 1911.
Associate Professor of German, 1908, (1909).

HERBERT BANCROFT DWIGHT, B. S., Colorado, 1904; E. E., 1914.
Professor of Mechanics, 1908, (1909), 1911.

CHARLES HENRY TAYLOR, B. S., Chicago, 1907; M. S., 1909.
Director of the School of Mining Geology, Professor of Geology, (1909), 1912.

WILLIAM PETER HASEMAN, A. B., Indiana, 1903; A. M., 1904; Ph. D., Pennsylvania, 1907.
Professor of Physics, (1909).

ERRETT RAINS NEWBY, B. M., Oklahoma, 1907; B. A., 1908.
Secretary, Registrar, with rank of Professor, 1908, (1909), 1911.

ARCHA KELLY WEST, M. D., Memphis Hospital Medical College, 1894.
Professor of Medicine, (1910), 1911.
306 Majestic Building, Oklahoma City.

ROBERT MAYBURN HOWARD, M. D., Michigan, 1901.
Professor of Surgery, (1910), 1915.
603 Security Building, Oklahoma City.

EDMUND SHEPPARD FERGUSON, M. D., Detroit College of Medicine, 1895.
Professor of Ophthalmology, (1910), 1915.
612 State Bank Building, Oklahoma City.

JOHN WILLIAM RILEY, M. D., University of Buffalo, 1901.
Professor of Genito-Urinary Surgery, (1910), 1914.
119 W. Fifth Street, Oklahoma City.

HORACE REED, M. D., Missouri, 1901.
Professor of Surgery, (1910), 1915.
622-23 State Bank Building, Oklahoma City.

HENRY HUBBARD FOSTER, A. B., Cornell, 1899; LL. B., Harvard, 1908.
Professor of Law, (1910).

†JOHN BEGG CHEADLE, A. B., Kansas, 1898; LL. B., 1902.
Professor of Law, 1909, (1911).

VICTOR HENRY KULP, Ph. B., Chicago, 1905; J. D., 1908.
Professor of Law, (1911).

JOHN ALLEY, A. B., Kingfisher College, 1902; A. B., Harvard, 1908.
Professor of Government, (1911).

ROY TEMPLE HOUSE, A. B., Miami, 1900; A. M., 1903.
Professor of German, (1911).

JOHN ARCHER HATCHETT, M. D., Missouri Medical College, St. Louis, 1884.
Professor of Obstetrics, (1911), 1915.
El Reno, Oklahoma.

JAMES IRWIN TUCKER, B. S., Tufts, 1901; LL. B., Boston Evening Law School, 1909.
Director of the School of Civil Engineering, Professor of Civil Engineering, (1911), 1913.

ABRAHAM LINCOLN BLESH, M. D., Northwestern, 1889.
Professor of Surgery, (1912), 1915.
606-10 State Bank Building, Oklahoma City.

LAUREN HAYNES BUXTON, M. D., Vermont, 1884; LL. D., Central University, Pella, Iowa, 1907.
Professor of Otology, Rhinology, and Laryngology, (1912), 1915.
Colcord Building, Oklahoma City.

GAYFREE ELLISON, B. S., Bethany College, 1898; M. D., Rush Medical College, 1903.
Professor of Bacteriology, 1910, (1912).

ANDREW CLARKSON PARSONS, A. B., Nebraska, 1903.
Professor of Secondary Education, High School Inspector, (1912).

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†On leave of absence, 1915-16.

WARREN WAVERLEY PHELAN, A. B., Columbia, 1894; A. M., 1896; Ph. D., George Washington University, 1905.
Director of the School of Education, Professor of Psychology and Education, (1912), 1913.

EDWARD FRANCIS DAVIS, M. D., Miami Medical College, University of Cincinnati, 1902.
Associate Professor of Ophthalmology, 1911, (1913), 1915.
616-17 Colcord Building, Oklahoma City.

EVA ELLSWORTH DUNGAN, Cornell College, Iowa; Berlin; Paris.
Professor of Public School Music and Piano, 1911, (1913), 1915.

CHARLES FRANCOIS GIARD, Graduate New England Conservatory of Music, 1905.
Professor of Piano and Theory of Music, 1912, (1913), 1915.

JOHN SMITH HARTFORD, M. D., Kansas City Medical College, 1901.
Professor of Gynecology, 1910, (1913), 1915.
603 Security Building, Oklahoma City.

GEORGE ALTHOUSE LAMOTTE, B. L., Missouri Valley College, Marshall, Mo., 1897; M. D., Jefferson Medical College, Philadelphia, 1901.
Associate Professor of Medicine, 1910, (1913).
518 Colcord Building, Oklahoma City.

LEWIS JEFFERSON MOORMAN, B. S., Georgetown College, Kentucky, 1898; M. D., Hospital College of Medicine (Central University), Louisville, Kentucky, 1901.
Professor of Medicine, 1910, (1913), 1915.
622-23 State Bank Building, Oklahoma City.

LEONARD BLAINE NICE, Ph. B., Ohio, 1908; Ph. D., Clark, 1911.
Professor of Physiology, (1913).

LEA ARMISTEAD RIELY, A. B., Hanover College, Indiana, 1895; M. D., University of Louisville, 1898; A. M., Hanover College, 1901.
Associate Professor of Medicine, 1910, (1913).
335 American Bank Building, Oklahoma City.

ANGELO C. SCOTT, A. B., Kansas, 1877; A. M., 1880; LL. B., LL. M., Columbian University Law School, 1885.
Director of Extension Lectures, University Extension, with rank of Professor, (1913).

JOSEPH WHITEFIELD SCROGGS, A. B., Lafayette, 1875; D. D., Washburn, 1902; A. M., Lafayette, 1910.
Director of the Department of Public Information and Welfare, University Extension, with rank of Professor, (1913).

HARRY COULTER TODD, B. A., Acadia College, Canada, 1897; M. D., Bowdoin, 1900; M. A., Acadia College, Canada, 1907.
Associate Professor of Otology, Rhinology, and Laryngology, 1912, (1913), 1915.
Colcord Building, Oklahoma City.

ANTONIO DEBORD YOUNG, M. D., Barnes Medical College, St. Louis, 1895.
Professor of Nervous and Mental Diseases, 1910, (1913), 1915.
634 Security Building, Oklahoma City.

EDMUND PENDLETON RANDOLPH DUVAL, B. S., Texas, 1901; M. A., 1902; A. M., Harvard, 1904.
Associate Professor of Mathematics, (1914).

JOSEPH WARREN MADDEN, A. B., Illinois, 1911; J. D. Chicago, 1914.
Professor of Law, (1914).

WILLIAM ANTON SCHMIDT, A. B., Willamette, 1909; O. B., 1910; M. A., Washington, 1911.
Professor of the History and Administration of Education, (1914).

RICHARD GRAY SOUTAR, B. A., Wisconsin, 1912.
Professor of Physical Education, (1914).

LYMAN P. WILSON, B. S., Knox, 1900; J. D., Chicago, 1907.
Professor of Law, (1914).

JESSE LEE RADER, B. A., Oklahoma, 1908; M. A., 1913.
Librarian, with rank of Associate Professor, 1908, (1915).

HOWARD STORM BROWNE, B. A., Oklahoma, 1911; Ph. C., 1912; M. S., 1913.
Associate Professor of Materia Medica, 1911, (1915).

SAMUEL ROBERT CUNNINGHAM, M. D., Medical College of Indiana, Indianapolis, 1899.
Associate Professor of Gynecology, 1910, (1915).
306 Majestic Building, Oklahoma City.

PATRICIO GIMENO, B. A., Academy of Art, Valencia, Spain, 1883.
Associate Professor of Romance Languages, 1911, (1915).

ROBERT LORD HULL, A. B., Bowdoin, 1897; M. D., Jefferson Medical College, Philadelphia, 1902.
Associate Professor of Orthopedic Surgery, 1911, (1915).
432-34 American Bank Building, Oklahoma City.

EVERETT SAMUEL LAIN, M. D., Vanderbilt, 1900.
Associate Professor of Dermatology, Electro-Therapy, and Radiography, 1912, (1915).
707 State Bank Building, Oklahoma City.

ROBERT ELMORE LOONEY, M. D., University of Nashville, 1902.
Associate Professor of Obstetrics, 1910, (1915).
612 American Bank Building, Oklahoma City.

MILLINGTON SMITH, M. D., Missouri Medical College, St. Louis, 1881.
Associate Professor of Clinical Surgery, 1910, (1915).
319 Colcord Building, Oklahoma City.

WILLIAM MERRITT TAYLOR, B. S., Kentucky Wesleyan College, Winchester, Ky., 1894; M. D., University and Bellevue Hospital Medical College, New York City, 1898.
Associate Professor of Pediatrics, 1911, (1915).
509-12 State Bank Building, Oklahoma City.

ARTHUR WEAVER WHITE, B. A., Monmouth College, 1898; M. D., Rush Medical College, 1902; A. M., Monmouth College, 1908.
Professor of Medicine, 1912, (1915).
400 Colcord Building, Oklahoma City.

HAROLD HARVEY HERBERT, A. B., Illinois, 1912.
Associate Professor of Journalism, 1913, (1915).

JOHN MOSBY ALFORD, M. D., Tulane, 1895.
Associate Professor of Medicine, 1911, (1915).
504 Colcord Building, Oklahoma City.

JOHN W. DUKE, M. D., Memphis Hospital Medical College, 1891.
Professor of Nervous and Mental Diseases, (1915).
Guthrie, Oklahoma.

MAURICE GOLDSMITH MEHL, S. B., Chicago, 1911; Ph. D., 1914.
Associate Professor of Geology, (1915).

Assistant Professors

†ARTHUR BARTO ADAMS, A. B., South Carolina, 1910; M. A., Columbia, 1912.
Assistant Professor of Economics, (1913).

JOHN FREDERICK KUHN, Ph. G., Illinois, 1893; M. D., Georgetown University, 1901.
Assistant Professor of Surgery, 1912, (1913).
619-20 State Bank Building, Oklahoma City.

JOSEPH THOMAS MARTIN, A. B., St. Mary's College, Kansas, 1903; A. M., 1906; M. D., St. Louis University, 1907.
Assistant Professor of Medicine, 1911, (1913), 1915.
318 E. Fourth Street, Oklahoma City.

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†On leave of absence, 1915-16.

JOSEPH FIFE MESSENBAUGH, M. D., Missouri Medical College, St. Louis, 1898.
Assistant Professor of Children's Diseases, 1910, (1913).
519 Colcord Building, Oklahoma City.

LESTER WILLIAM WALLACE MORROW, M. E., Cornell, 1911.
Assistant Professor of Electrical Engineering, (1913).

*FRANK BRUNER SORGATZ, M. D., Northwestern, 1907.
Assistant Professor of Medicine, 1911, (1913)
419 Insurance Building, Oklahoma City.

†BURTON FRANK TANNER, B. L., Dakota Wesleyan University, 1908; Graduate Cumnock School of Oratory, Northwestern University, 1912.
Assistant Professor of Public Speaking, 1912, (1913).

‡CURT OTTO VON WEDEL, JR., M. D., University and Bellevue Hospital Medical College, New York, 1907.
Assistant Professor of Surgery, 1912, (1913).
720 N. Robinson Street, Oklahoma City.

LEIGH FESTUS WATSON, Ph. G., Virginia School of Pharmacy, 1902; M. D., Medical College of Virginia, 1906.
Assistant Professor of Surgery, 1911, (1913).
611 Colcord Building, Oklahoma City.

ARTHUR ANDERSON WILL, M. D., Albany Medical College, 1900.
Assistant Professor of Rectal Surgery, 1912, (1913).
400 Colcord Building, Oklahoma City.

WILLIAM JONES WALLACE, Ph. C., 1900; M. D., 1901, University of the South, Nashville, Tennessee.
Assistant Professor of Genito-Urinary Diseases, (1914).
203 American National Bank Building, Oklahoma City.

†ELIZABETH CHURCH, A. B., Dalhousie, 1896; A. M., Radcliffe, 1903; Ph. D., 1913.
Assistant Professor of English, (1914), 1915.

EARLE SELLERS PORTER, B. A., Oklahoma, 1911; M. A., 1912.
Assistant Professor of Chemistry, (1909), 1912.

ANDREW ROBERT RAMEY, A. B., Milliken, 1897; M. A., Virginia, 1902.
Assistant Professor of English, (1914).

WALTER JACOB WOHLENBERG, B. S., in Mechanical Engineering, Nebraska, 1910.
Assistant Professor of Mechanical Engineering, (1914).

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*Assistant Professor of Pathology and Clinical Microscopy for 1915-16.
†On leave of absence, 1915-16.
‡Acting Professor of Anatomy, 1915-16.

BENJAMIN GILBERT OWEN.
Assistant Professor of Physical Education and Coach, 1905, (1915).

LEWIS SPENCER SALTER, B. M., Oklahoma, 1912.
Assistant Professor of Piano and Theory of Music, 1911, (1915).

FLOYD JACKSON BOLEND, Ph. C., University of Oklahoma, 1901; M. D., College of Physicians and Surgeons, St. Louis, 1906.
Assistant Professor of Medicine, 1912, (1915).
304-5-6-7 Security Building, Oklahoma City.

THOMAS CRAIG BURNS, M. D., Union College, Albany, New York, 1908.
Assistant Professor of Nervous and Mental Diseases, 1912, (1915).
Security Building, Oklahoma City.

CHARLES DUNCAN FERGUSON, M. D., University of Toronto, Canada, 1901.
Assistant Professor of Ophthalmology, 1912, (1915).
612 State Bank Building, Oklahoma City.

GEORGE FREDERICK WILLIAM SCHMIDT, B. M., Oklahoma, 1912.
Assistant Professor of Voice, 1913, (1915).

PAUL S. CARPENTER, Graduate Broadstreet Conservatory of Music, Philadelphia, 1912.
Assistant Professor of Violin, 1914, (1915).

LEILA EDNA ANDREWS, M. D., Northwestern, 1900.
Assistant Professor of Pediatrics, 1914, (1915).
405 Colcord Building, Oklahoma City.

HARRY CLINTON GOSSARD, B. S., Ohio Northern, 1907; Ph. D., Johns Hopkins, 1914.
Assistant Professor of Mathematics, 1914, (1915).

AUGUST STEITZ, B. A., New York University, 1905: M. A., Yale, 1906; Ph. D., New York University, 1914.
Assistant Professor of German, 1914, (1915).

METTA KATHRYN LEGLER.
Assistant Professor of Voice, 1914, (1915).

JOHN ARTHUR RECK, M. D., Marion Sims College of Medicine, St. Louis, 1893.
Assistant Professor of Gynecology, 1914, (1915).
606 Colcord Building. Oklahoma City.

OSCAR BROUSSE JACOBSON, B. F. A., Bethany, 1903.
Assistant Professor of Art, (1915).

FOWLER DELL BROOKS, A. B., A. M., Baker, 1911; M. A., Oklahoma, 1915.
Assistant Professor of Psychology and Education, (1915).

W. EUGENE DIXON, M. D., Louisville Medical College, 1894.
Assistant Professor of Otology, Rhinology, and Laryngology, (1915).

HARRIET JULIA HOPKINS, B. S., Columbia, 1914.
Assistant Professor of Domestic Science, (1915).

ISAIAH MARCH RAPP, A. B., Ursinus, 1903; Ph. D., Chicago, 1915.
Assistant Professor of Physics, (1915).

Instructors

REX GEORGE BOLEND, B. S., University of Illinois, 1909; M. D., University of St. Louis, 1911.
Instructor in Medicine and Hospital Anaesthetist, (1912), 1914.
611 Security Building, Oklahoma City.

WILLIAM ALONZO FOWLER, L. I., Peabody College for Teachers, Nashville, Tennessee, 1905; M. D., University of Nashville, 1908.
Instructor in Obstetrics, (1912), 1914.
225 Lee Building, Oklahoma City.

ANDREW MERRIMAN YOUNG, M. D., Vanderbilt, 1909.
Instructor in Obstetrics, (1912), 1914.
319 Colcord Building, Oklahoma City.

†LAWRENCE NELSON MORGAN, B. A., North Carolina, 1912.
Instructor in English, (1912).

CYRIL EBERT CLYMER, M. D., St. Louis, 1910.
Instructor in Surgery, (1913). 1914.

CASRIEL J. FISHMAN, Ph. C., Michigan, 1902; B. S., 1906; M. D., Rush Medical College, Chicago, 1908.
Instructor in Medicine, 1911, (1913), 1914.
325 E. Fourth Street, Oklahoma City.

†KENNETH POTTER MONROE, B. S., Chicago, 1913.
Instructor in Chemistry, (1913).

RACHEL REVELL, Ph. B., Iowa State College, Grinnell, Iowa, 1904; Graduate of Sargent's School for Physical Education, Cambridge, Massachusetts, 1907.
Instructor in Physical Education, (1913.)

†JOSEPH BRADFIELD THOBURN, B. S., Kansas Agricultural College, 1893.
Instructor in History, (1913).

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†On leave of absence, 1915-16.

George Hunter, M. D., Louisville Medical College, Louisville, Kentucky, 1904.
Instructor in Obstetrics, (1914).
213 Baltimore Building, Oklahoma City.

*Alexander Watts McCoy, C. E., University of Missouri, 1912; M. A., 1914.
Instructor in Geology, (1914).

Everett Sterling Davis.
Instructor in Shop Practice, (1914).

Edmund Berrigan.
Assistant in Extension Division, with rank of Instructor, (1914).

Edward Everett Dale, B. A. Oklahoma, 1911; A. M., Harvard, 1914.
Instructor in History, (1914).

William Harrison Emig, A. B., Washington, St. Louis, 1911; Ph. D., 1915.
Instructor in Botany, (1914), 1915.

Addie Maloy, B. A., Oklahoma, 1914.
Instructor in Physics, (1914).

Edgar D. Meacham, B. A., Oklahoma, 1914.
Instructor in Mathematics, (1914).

Mollie Anne Peterson, Graduate Pratt Institute, 1912; Ph. B., Chicago, 1914.
Instructor in Domestic Art, (1914).

Gilbert Harmer Smith, B. A., Trinity, 1904; B. D., Union Theological Seminary, New York City, 1908.
Instructor in English, (1914).

‡Lucy Renette Hill, R. N., Bethany Hospital, Kansas City, 1898.
Superintendent, University Hospital, Instructor in Nursing, (1915).
325 E. Fourth Street, Oklahoma City.

John Paine Torrey, M. D., Harvard, 1896.
Instructor in Physical Diagnosis, (1915).

Herschel C. Smith, A. B., Michigan, 1913; B. C. E., 1913.
Instructor in Civil Engineering, (1915).

Robert Wesley Brown, B. S., Northwestern, 1911; M. S., Illinois, 1913.
Instructor in Geology, (1915).

Walter Stanley Campbell, B. A., Oxford, 1911; M. A., 1916.
Instructor in English, (1915).

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*Resigned, February 4, 1916.
‡Resigned, March 15, 1916.

HOWARD BENJAMIN CROSS, B. A., Oklahoma, 1915.
Instructor in Zoology, (1915).

THOMAS BRUCE ROBB, B. A., Park College, Parkville Missouri, 1912; M. A., Yale, 1914.
Instructor in Economics, (1915).

LUCIEN QUITMAN CAMPBELL, B. A., Tulane, 1915.
Instructor in English and Debating Coach, (1915).

MEADE FRIERSON, JR., B. S., Vanderbilt, 1915.
Instructor in English, (1915).

CLARK SNELL, B. Mus., Simpson, 1909.
Instructor in Piano, (1915).

‡ARTHUR JAMES WILLIAMS, B. S., Chicago, 1912; M. S., Iowa, 1914.
Instructor in Geology, (1916).

Assistants

EVA MARIE ANDERSON, B. A., Oklahoma, 1914.
Assistant in Public Speaking, (1915.)

ROSETTA ANGELINE BRIEGEL, B. A,, Oklahoma, 1915.
Assistant in Chemistry, (1915).

STEPHEN HARRY GRAHAM, M. D., Oklahoma, 1915.
Assistant in Anatomy, (1915).

‡JOHN MOSELEY, B. A., Austin College, 1912.
Assistant in Latin, (1916).

Special Lecturers and Special Directors

ROBERT LEE WILLIAMS, A. M., LL. D.
Governor and Ex-Chief Justice of the Supreme Court. Lecturer on the Oklahoma Constitution, (1909).
State Capitol, Oklahoma City.

CHARLES B. AMES, A. B., LL. B.
Ex-Supreme Court Commissioner. Lecturer in School of Law, (1909).
512 American Bank Building, Oklahoma City.

MALCOLM E. ROSSER, LL. B.
Ex-Supreme Court Commissioner. Lecturer in School of Law, (1909).
Lawrence Building, Oklahoma City.

WILLIAM ROBINSON MOLINARD, E. E., Johns Hopkins, 1893.
Lecturer on Electrical Power Plant Engineering, (1913).
Insurance Building, Oklahoma City.

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‡From February 4, 1916.

STUART A. COURTIS.
Consulting Director of the Department of Measurement, Efficiency, and Standardization, School of Education, (1913).
82 Eliot Street, Detroit, Michigan.

MATTHEW J. KANE.
Chief Justice of the Supreme Court. Lecturer in the School of Law, (1913).
Lawrence Building, Oklahoma City.

J. H. KEATON, B. S., LL. B.
Ex-Judge District Court. Ex-Associate Justice of the Supreme Court of the Territory of Oklahoma. Lecturer in the School of Law, (1913).
Terminal Building, Oklahoma City.

GEORGE WASHINGTON KNOX.
Lecturer in Electric Railway Engineering, (1913).
Terminal Building, Oklahoma City.

HERBERT DELAVAN MASON, LL. B.
Of the Oklahoma Bar. Lecturer in the School of Law, (1913).
Tulsa, Oklahoma.

JAMES FRANKLIN NOBLE, A. B., Kansas, 1892; LL. B., Northwestern, 1894.
Lecturer in Telephone and Telegraph Engineering, (1913).
Pioneer Building, Oklahoma City.

LLOYD A. ROLAND, A. B., LL. B.
Of the Oklahoma Bar. Lecturer on Oil and Gas Law, (1913).
Bartlesville, Oklahoma.

CHARLES WEST, A. B.
Ex-Attorney-General of Oklahoma. Lecturer in the School of Law, (1913).
Lawrence Building, Oklahoma City.

GEORGE A. HENSHAW, LL. B.
Member of the Oklahoma Corporation Commission. Lecturer in the School of Law, (1914).
Mercantile Building, Oklahoma City.

H. H. ROGERS, B. S.
Of the Oklahoma Bar. Lecturer in the School of Law, (1914).
Tulsa, Oklahoma.

R. A. KLEINSCHMIDT, B. L., LL. B.
Of the Oklahoma Bar. Lecturer in the School of Law, (1914).
Patterson Building, Oklahoma City.

FRANK WELLS, LL. B.
Of the Oklahoma Bar. Lecturer in the School of Law, (1914).
Terminal Building, Oklahoma City.

EVERETTE LEE DEGOLYER, B. A., Oklahoma, 1911.
Lecturer in Geology, (1915).

CLINTON ORVIN BUNN.
Of the Oklahoma Bar. Lecturer in the School of Law, (1915).
Ardmore, Oklahoma.

RALPH E. CAMPBELL, B. S., A. B.
United States District Judge for the Eastern District of Oklahoma. Lecturer in the School of Law, (1915).
Muskogee, Oklahoma.

S. PRINCE FREELING, B. S., A. B., LL. B.
Attorney General of Oklahoma. Lecturer in the School of Law, (1915).
400 Lawrence Building, Oklahoma City.

C. G. HORNER.
Of the Oklahoma Bar. Lecturer in the School of Law, (1915).
Guthrie, Oklahoma.

W. C. JACKSON.
Member of the State Industrial Commission. Lecturer in the School of Law, (1915).
409 Patterson Building, Oklahoma City.

D. A. RICHARDSON.
Ex-Judge of the Criminal Court of Appeals. Lecturer in the School of Law, (1915).
521 American Bank Building, Oklahoma City.

JOHN F. SHARP, LL. B.
Vice-Chief Justice of Supreme Court. Lecturer in the School of Law, (1915).
Lawrence Building, Oklahoma City.

Fellow

GERALD STAMPER TEBBE, B. A., Oklahoma, 1915.
Fellow in Education, (1915).

Business Officers

JOSIAH LAWRENCE LINDSEY.
Financial Clerk, (1912).

EDWARD KITCHELL WITCHER, A. B., Illinois, 1912.
Secretary, Student Employment Bureau for Men, (1913).

PAUL HILL FESLER.
Clerk, Medical School, Oklahoma City, (1914).
325 E. Fourth Street, Oklahoma City.

GRACE BINFORD SMITH, Ph. B., Lincoln College, 1912.
Cataloguer, Library, (1914).

ELOISE EAGLETON, B. A., Oklahoma, 1912.
Secretary, Student Employment Bureau for Women, (1915).

Oklahoma Geological Survey

CHARLES WILLIAM SHANNON, A. B., Indiana, 1906; A. M., 1907.
Director, Oklahoma Geological Survey, 1912, (1913).

%LUTHER CROCKER SNIDER, A. B., Indiana, 1908; A. M., 1909; Ph. D., Chicago, 1915.
Assistant Director, 1909, (1913).

+‡GEORGE HARRISON MYERS, B. A., Oklahoma, 1913.
Assistant Director, 1914, (1915).

¶‖GEORGE EDGAR BURTON, A. B., Indiana, 1908.
Assistant Director, 1915, (1916).

%Resigned, November 1, 1915.
‡Assistant Geologist to November 1, 1915.
+Resigned, February 1, 1916.
¶Assumed duties, November 15, 1915.
‖Assistant Geologist to February 1, 1916.

STANDING COMMITTEES

Council: The president, the vice-president, and the deans.

Admission and Affiliation: Professors Newby, Dwight, Kulp, Parsons.

Advanced Standing: Professors Gittinger, Felgar, Holmberg, Monnet, Stocking, Turley.

Assembly Committee: Professors Monnet, Holmberg, Sturgis.

Athletics: Professors Felgar, Alley, Bozell.

Committee of Audit: Professors Cheadle, Van Vleet, Brewer.

Conferences and Conventions: Professors Scroggs, Van Vleet, Newby.

Eligibility in Athletics: Professors G. Y. Williams, Floyd, Wilson.

Graduate Studies: Professors Van Vleet, Taylor, G. Y. Williams, Phelan, Gittinger.

Hygiene and Sanitation: Professors Felgar, Ellison, DeBarr.

Interscholastic Meet: Professors Bozell, Alley, Soutar, Salter, Parsons.

Library: Professors Rader, Dowd, Hadsell.

Lyceum Council: Professors Holmberg, Dowd, Kulp.

Non-Athletic Organizations: Professors Taylor, Dora, Sturgis, Voss, Nice.

Oratory and Debate: Professors Foster, Scott, W. A. Schmidt.

Program: Professors Bozell, Reaves, Foster, Hadsell.

Recommendations: Professors Phelan, DeBarr, Sturgis.

Bulletin of University Studies: Professors Reaves, Scroggs, Paxton, Tucker, Madden.

University Publications: Professors Newby, Herbert, Lane.

OFFICIAL ADVISERS

Graduate School: The dean.

College of Arts and Sciences:

Freshmen: The dean and freshman advisers. (Freshmen should consult the dean and not the freshman advisers in regard to enrollment.)

Sophomores, Juniors, and Seniors: The major professors.

Unclassified Students: The dean.

School of Fine Arts: The dean.

School of Law: The dean.

School of Medicine: Oklahoma City, the dean; Norman, the dean or his representative.

School of Pharmacy: The dean.

College of Engineering:

Freshmen: The dean.

Sophomores, Juniors, and Seniors: The directors.

Training School for Nurses: Superintendent of the hospital.

FACULTY AND STUDENT COUNCILS

Athletic Council: Appointed by the President: Faculty, Professors Felgar, Alley, Bozell; Alumni, Newby. Elected by the Athletic Association: Faculty, Mr. Meacham; Students, Messrs. Curry Bell, Elmer Capshaw, Thomas H. McCasland, Neil Johnson.

Oratorical Council: Faculty Members, Professor Wilson, Associate Professor Herbert, Mr. L. Q. Campbell; Students, two from each of the literary societies of the university.

Bureau of Standards: Professor Haseman, Director; Professor Bozell and Assistant Professor Wohlenberg, Assistant Directors.

GENERAL INFORMATION

GENERAL INFORMATION

THE UNIVERSITY AND THE STATE

The University of Oklahoma is a part of the public educational system of the state. The governing body of the institution is the State Board of Education, consisting of the Superintendent of Public Instruction and six members appointed by the Governor. In accordance with the laws of Oklahoma, the university provides an opportunity to continue the work that is begun in the public schools, and furnishes, without charge for tuition, facilities for academic training and for thorough professional study. The university realizes the necessity of fitting into the public school system of the state; this is shown by its attitude toward the requirements for admission. A graduate of any four-year high school that maintains certain standards is admitted without examination to freshman standing. In order to take advantage of this plan of admission, high schools are adjusting their work as rapidly as possible to these standards. Provision has been made by the university for visiting schools, and for giving them such suggestions and assistance in the matter of correlation as they desire. A detailed statement of the requirements for the affiliation, or the recognition, of high schools, as well as of the requirements for the admission of students, may be found under the head of "Admission."

Apart from this close connection with the public schools, it is the purpose of the University of Oklahoma to reach general readers and investigators throughout Oklahoma. It is able to serve the general public chiefly through University Extension, which is described under the proper head. So far as possible, however, all its equipment is made useful to the people of the state at large. The Summer Session has been organized to open the doors of the university to students who are unable to attend during the school year.

Beyond its directly educational work, the University of Oklahoma stands as the concrete expression of the intellectual activity of the state, engaged in doing its part in extending the field of knowledge, especially in such directions as may be of the greatest and most obvious benefit to mankind. Thus by the action of the legislature it is called upon to do such research work as will best aid the citizens of the state. Also, by locating the offices of the Geological Survey here, the legislature manifestly intended to use the facilities of the

university for research in such a way as to aid in the development of the mineral resources of the state. These modest beginnings must be accepted as indications of what will become a very large and important work.

ORGANIZATION OF THE UNIVERSITY

Colleges and Schools

The University of Oklahoma comprises the following colleges and schools:

The Graduate School.
The College of Arts and Sciences, including
- The School of Commerce and Industry.
- The School of Education.
- The School of Journalism.

The School of Fine Arts.
The School of Law.
The School of Medicine, including
- The Training School for Nurses.

The School of Pharmacy.
The College of Engineering, including
- The School of Chemical Engineering.
- The School of Civil Engineering.
- The School of Electrical Engineering.
- The School of Mechanical Engineering.
- The School of Mining Geology.

The Graduate School offers advanced work leading to the degree of Master of Arts, Master of Science, and the higher degrees in engineering.

The College of Arts and Sciences offers:

a. Four years' work, largely elective, in classical, literary, and scientific studies, leading to the degree of Bachelor of Arts.

b. Four years' work, part of which is given in the School of Medicine, leading to the degree of Bachelor of Science.

c. Courses leading to a permanent state teachers' certificate, in addition to the bachelor's degree.

d. Courses leading to a certificate in commerce and industry, or in journalism, in addition to the bachelor's degree.

The School of Fine Arts offers:

a. Four years' work in theory of music, in piano, in voice, and in violin, leading to the degree of Bachelor of Music.

b. Four years' work in drawing and painting leading to a Certificate in Art.

c. Courses in expression and dramatic art.

d. Courses in violoncello, cornet and other brass instruments.

e. Graduate courses in piano, voice, and violin for those who desire to make public performances and repertoire a specialty. No degree is offered for this work.

f. Preparatory work in piano, in voice, and in violin.

The School of Law offers three years' work leading to the degree of Bachelor of Laws.

The School of Medicine offers four years' work leading to the degree of Doctor of Medicine. The School of Medicine offers also three years' work in the Training School for Nurses in the University Hospital, leading to a diploma and the title of Graduate Nurse.

The School of Pharmacy offers two years' work leading to the degree of Graduate in Pharmacy, three years' work leading to the degree of Pharmaceutical Chemist, and four years' work leading to the degree of Bachelor of Science in Pharmacy.

The College of Engineering offers four years' work in mechanical, in electrical, in civil, and in chemical engineering, leading to the degree of Bachelor of Science in mechanical, electrical, civil, or chemical engineering; and four years' work leading to the degree of Bachelor of Science in mining geology.

Courses are offered for college credit during the Summer Session, which lasts eight weeks, beginning in June just after the close of the second semester. The aim of the Summer Session is to meet the needs especially of county and city superintendents, high school and grade teachers, and of university students who want to earn additional college credit.

Faculties

Each college or separate school has a special faculty presided over by a dean. The general faculty consists of the president, the vice-president, the deans, all professors, associate professors, assistant professors, lecturers, and instructors, and the registrar and librarian.

The executive council consists of the president, the vice-president, and the deans.

HISTORY

The University of Oklahoma is founded upon the authority of an act of the legislature of the Territory of Oklahoma, entitled, "An act to locate and establish the University of Oklahoma." The act provided that when ten thousand dollars and forty acres of land should be given to the territory by the city of Norman the school should be located at

that place. These requirements having been met, the University of Oklahoma was established at Norman in 1892.

The law states the scope and purpose of the school as follows:

"(6787) Sec. 9. The object of the University of Oklahoma shall be to provide the means of acquiring a thorough knowledge of the various branches of learning connected with scientific, industrial, and professional pursuits, in the instruction and training of persons in the theory and art of teaching, and also the fundamental laws of the United States and this territory in what regards the rights and duties of citizens.

"(6788) Sec. 10. The college department of arts shall embrace courses of instruction in mathematical, physical, and natural sciences with their applications to the industrial arts, such as agriculture, mechanics, engineering, mining and metallurgy, manufactures, architecture, and commerce, and such branches included in the college of letters as shall be necessary to proper fitness of pupils in the scientific and practical courses of their chosen pursuits, and in military tactics; and in the normal department the proper instruction and learning in the theory and art of teaching in the common schools; and as soon as the income of the university will allow, in such order as the wants of the public shall seem to require, the said courses in the sciences and their application to the practical arts shall be expanded into distinct colleges of arts, and shall embrace a liberal course of instruction in languages, literature, and philosophy, together with such courses or parts of courses in the college of arts as the regents of the university shall prescribe.

"(6789) Sec. 11. The university shall be open to female as well as to male students, under such regulations and restrictions as the board of regents may deem proper, and all able-bodied male students of the university in whatever college may receive instruction and discipline in military tactics, the requisite arms for which shall be furnished by the territory."

The first legislature of the state, in 1907, adopted the territorial law in the provisions quoted above, with such additions and changes in details as seemed necessary at the time.

The university accepted students for the first time in the fall of 1892. In the spring of 1893 work was begun on the first building which was occupied the following September. During the first years the institution was a university in name only; a very large majority of the students were members of the lower classes of the preparatory school.

Colleges and schools have developed in the following order:—

The College of Arts and Sciences, 1893; the School of Pharmacy, two-year plan, 1893, four-year plan, 1908, three-year plan, 1914; gradu-

ate work, 1899, the Graduate School organized separately, 1909; the School of Medicine, first two years' work, 1900, third and fourth years, 1910; the School of Fine Arts, 1903; the School of Applied Science and the School of Mines, 1904, reorganized as the College of Engineering, 1909; the Summer Session, 1908; the School of Law, 1909; the School of Education, 1909; Training School for Nurses, 1912; School of Commerce and Industry, 1913; School of Journalism, 1913.

The first class was graduated from the School of Pharmacy in 1896; the first degrees were granted by the College of Arts and Sciences in 1898; the first master's degree was granted in 1900; the first degree was granted by the School of Fine Arts in 1905; the first in engineering, in 1908; the first for the four-year course in pharmacy, in 1910; the first by the School of Law, in 1910; the first by the School of Medicine, in 1910; the first nurse's diploma, in 1913.

David Ross Boyd was president of the university from 1892 to 1908. Arthur Grant Evans was president of the university from 1908 to 1911. Julien Charles Monnet was acting president during the school year 1911-12. Stratton Duluth Brooks became president of the university on May 1, 1912.

SUPPORT

The University of Oklahoma is supported from the general revenue of the state and from the income received from lands set aside by Congress out of the public domain as an endowment for the state schools.

The revenue for the year ending June 30, 1916, is as follows:

For Support and Maintenance

General appropriation	$86,000.00
From section 13	81,250.00
From new college lands	72,000.00
For university extension	10,000.00
Total	249,500.00

The endowment in land was made by Congress in two grants: Section 13 in each township, in what is known as the Cherokee Outlet and in the Kiowa, Comanche, and Wichita reservations, opened for settlement in 1901, was reserved for the university, normal schools, preparatory school, and agricultural college. The lands so reserved are leased for the benefit of the schools named. In addition to Section 13, the enabling act, approved June 16, 1906, granted to the university 250,000 acres of land to be taken from any public lands within the state, remaining unfiled as homesteads on that date.

The legislature provided for the sale of these lands, the proceeds

of such sale to be set aside for the university. The total value of land endowment and the proceeds from the sale of school lands is estimated at $3,670,000.

GROUNDS

The University of Oklahoma occupies a campus of one hundred and twenty acres. This includes, besides the original forty acres, twenty acres of land adjoining, given by the people of Norman in 1902, and sixty acres additional land lying contiguous to the original campus, which was obtained in 1914 in exchange for a section of land granted to the university by Congress in 1907. By this exchange the university also secured a president's house and several lots adjacent to the campus.

The foresight of the early administration of the university provided for the planting of an abundance of trees, which have now grown to such proportions as to increase the natural beauty of the location.

Two athletic fields have been established on the campus, one for the men and one for the women. The athletic field for the men, known as Boyd Field, contains a quarter-mile running track, two gridirons, and two baseball diamonds. Alongside the field is a grandstand with seating capacity for three thousand people. The entire field is enclosed by a permanent hedge.

BUILDINGS

The first building, completed in 1893, was destroyed by fire in January, 1903. Old University Hall, completed in March, 1903, was destroyed by fire in December, 1907. Science Hall and the Carnegie Library were erected in 1904. The later buildings are planned in accordance with a systematic scheme for landscape and design.

University Hall

University Hall, completed in 1912, is a handsome structure of stone and brick, in the collegiate Gothic style. Its dimensions are 197 feet by 71 1-2 feet. It is fireproof throughout. It contains the offices of administration as well as a large number of class rooms. It stands almost on the site of the University Hall which was destroyed by fire in 1907.

Science Hall

Science Hall is a three-story building 63 feet by 125 feet, built of gray pressed brick, with limestone trimmings. This building was first used in September, 1904. The laboratories and recitation rooms for pharmacy, pathology, geology, physiology, bacteriology, and botany are in Science Hall.

Library

The library building is a gift from Andrew Carnegie. It is built of gray pressed brick, and consists of two stories and a basement. The general reading room, the offices, and the stack room are on the first floor. On the second floor is a large room used for general meetings. In the basement are special reading rooms, the offices of the Extension Division, and the offices of the Oklahoma Geological Survey.

Engineering Building

During the session of 1909-1910, a substantial building was erected for the College of Engineering. While the ultimate design for this building is that it shall be used for the shops, it is so constructed that it makes provision at present for the entire work of the college. The building is brick and stone, two stories high, 217 feet by 38 feet, with a one-story wing for the foundry, 38 feet, 10 inches, by 30 feet, 2 inches. The whole is fireproof. It is adjacent to the university heating and power plant and is supplied with steam and power from this plant for the operation of all machinery in the university. The rooms of the second story give accommodations for the engineering library, for recitations, and all work in drafting. The first-floor space is devoted to the laboratory work in mechanical and electrical engineering.

Monnet Hall

The law building was first occupied at the opening session in September, 1913. It is 128 feet long and 55 feet wide, with additional 14 foot entrance projections on the east and west. It is built of Bedford stone, its architectural lines following in the main those of University Hall. It is centrally located, overlooking the oval, and constitutes one of the wings of the permanent group of buildings of which University Hall is the center. It has three stories and a basement, and contains every feature necessary for a modern law school. This building is one of unusual beauty, solidity, and convenience. It is fireproof throughout. In the basement is located the Historical and Ethnological Museum, and the exhibit of the Geological Survey.

Chemistry Building

The Chemistry Building, for which an appropriation of $100,000 was made by the last legislature, is now in process of construction. It will consist of a basement and four stories. The building, constructed of concrete and Algonite stone, is to be thoroughly fireproof; it measures 64 by 128 feet. In equipment and construction there is no more modern building in the United States. It will contain laboratories and class rooms for all the branches of chemistry, an auditorium seating 220 students, private research laboratories and offices for the

instructors, storage rooms, balance rooms, and adjacent to the building but connected with it, an underground storage room for inflammables and acids. All the laboratories will be supplied with uniform equipment, consisting of tables and all necessary fittings; gas, water, live steam, compressed air, vacuum, direct current, three alternating current lines,—one for lighting, one for light power, and one for heavy power,—and a storage battery current.

Medical Buildings

The anatomy building at Norman is situated west of the temporary buildings on the campus. The work of the other medical departments at Norman is conducted in University Hall, Science Hall and the Chemistry Building. The work in Oklahoma City is carried on at the Emergency Hospital at the corner of Second and Stiles Streets, where offices, recitation rooms, laboratories, and a library are provided. The University Hospital is located at 325 East Fourth Street, Oklahoma City. It is a modern, thoroughly equipped hospital of sixty beds. The handsome residence at 317 East Fourth Street is used as a nurses' home. The various hospitals and infirmaries of Oklahoma City, with which the School of Medicine is affiliated, are described in full in the special bulletin of the School of Medicine. The City Hospital building, located on Stiles, between Second and Third Streets, provides space for operating rooms, examining rooms, out-door dispensary, lecture rooms, clinical work, X-Ray plant, library and museum.

Gymnasium

The Gymnasium, built in 1903, is a frame building, 100 feet by 100 feet, divided into eight rooms. The main class room is 40 feet by 60 feet and 20 feet high, with a gallery seating 200 people; it is equipped with apparatus for drills, and for class and individual exercises. Locker rooms for men and for women, containing in all 509 steel lockers, and hot and cold shower and spray baths, are provided. The wings, for lockers, are 16 feet by 80 feet.

Journalism Building

The School of Journalism is located in a frame building. There is a class room, laboratory, and office, and adjacent thereto, the university print shop.

Temporary Buildings

Besides the buildings mentioned above, there are several smaller frame buildings on the grounds that were erected to relieve the congestion caused by the burning of the main building in 1907. These are used for class rooms, offices, laboratories and store rooms.

Work Shop

The Work Shop is a permanent brick building erected in 1914, one story in height, containing the carpenter shop, paint shop, lumber room, bath and locker rooms for the athletic teams, and office of the general manager of athletics.

Greenhouse

A greenhouse, ample in size to accommodate the most urgent present needs, was erected in 1914 for the use of the department of botany.

Heating and Power Plant

The buildings of the university are heated and lighted from a central plant recently built and equipped. This plant is connected by tunnels with the various buildings of the university. It supplies not only heat and light but all power used for the machinery in the various shops and laboratories. It is used also as an experimental plant by the students in mechanical and electrical engineering.

LABORATORIES

The university has the following laboratories, each with well selected apparatus and equipment to which additions are being made each year:

An anatomical laboratory.
A bacteriological laboratory.
Two botanical laboratories.
Several chemical laboratories.
A civil engineering laboratory.
An educational laboratory.
An electrical engineering laboratory.
Three geological laboratories and in addition those maintained for the State Geological Survey.
A journalism laboratory.
A materials testing laboratory.
A mechanical engineering laboratory.
A laboratory for pathology and histology.
A pharmaceutical laboratory.
A photometric laboratory.
Two physical laboratories.
A physiological laboratory.
A psychological laboratory.
A telephone engineering laboratory.
Two zoological laboratories.

COLLECTIONS

The botanical, zoological, and geological collections are excellent. In 1912 the Carroll collection of eggs, birds, animals and shells was purchased with the result that the university now has one of the best zoological collections in the southwest.

The School of Medicine has a good collection of gross and microscopic pathologic specimens.

The university historical and ethnological collections are being rapidly augmented. In addition to those owned by the university, several very valuable collections have been deposited with it or lent to it for safekeeping and exhibition. Among these may be mentioned the collection of Creek Indian pottery, basketry, bows and arrows, dance rattles, and ball sticks, which was gathered by the late Alexander Posey, the Creek Indian poet; and the collection of antique arms and Indian relics, which was gathered by the late Temple Houston, of Woodward. Two prehistoric races of Oklahoma are represented in the collections by typical specimens of their handiwork, namely, the earth-house people and the cave dwellers, both collections having been secured in the eastern part of the state. A number of portraits, photographs, papers, manuscripts, documents and other valuable matter pertaining to the early history of Oklahoma and other western states have also been secured as a nucleus of a library and museum for use in practical research. These collections are appropriately housed in fireproof quarters, and are displayed in suitable exhibition cases.

THE LIBRARIES

The general library is under the control of the library committee which is composed of the librarian as chairman, and two other members of the university faculty. It is administered with as few rules as possible, the desire of those in control being to help the greatest number of users possible and with only such restrictions as may seem necessary. On regular school days the library is open from 7:45 a. m. to 6:00 p. m. and from 7:00 to 10:00 p. m. On Saturday the hours are from 9:00 a. m. to 5:00 p. m.

The library, including departmental collections and government publications which it receives as a government depository, numbers 24,000 volumes. Selection of the books has been made with much care, with the needs of a modern university constantly in view The Dewey decimal classification is followed. Government publications which may be of immediate use are being catalogued and shelved with the rest of the library according to subjects, a process which will be continued as time permits.

Students and officers of the university may draw out books for

home use in accordance with the published regulations. Persons not connected with the university, but known to the librarian, are invited to make use of the books in the reference room of the library. Gifts to the library are gladly received and promptly acknowledged.

A library deposit of three dollars is required of all students.

Information about the use of the library, catalogue, and various indexes and library aids will be given on request.

The library of the School of Medicine at Oklahoma City contains a well-selected list of text-books and works of reference. New books and publications are being added constantly. The reading room is supplied with the leading medical periodicals. The librarian is constantly in attendance to aid workers in their investigations.

The departmental library of the College of Engineering is situated in the Engineering Building. It contains books, magazines, and technical literature of value to the engineer.

The departmental library in geology is in Science Hall adjacent to the geological laboratories. It contains the important literature and maps pertaining to geology.

The law library is on the third floor of the law building. The books have been carefully selected. Other installments will be procured from time to time, as it is the purpose of the school to build up rapidly a library that will answer all the purposes of legal study and investigation. Several of the leading law journals are kept constantly on file. A member of the law faculty has general supervision of the reading room and student assistant librarians are in charge to give needed information and maintain order. The library is open during the day and in the evening.

UNIVERSITY PUBLICATIONS

The Bulletin: The Bulletin is the official publication of the university. Its object is to set before the public information about the different departments of the university, and to provide a way for the publishing of departmental reports, papers, theses, and such other matter as the university believes will be helpful to the cause of education in the state.

University Studies: University studies are published at irregular intervals. The publication now known as "University Studies" takes the place of the Research Bulletin which was published from 1909 until 1912.

The University Magazine: The University Magazine is published once a month by the School of Journalism.

The Alumni Directory: In October of each year the university publishes an Alumni Directory, containing names, addresses, occupations, and other information about alumni.

STUDENT PUBLICATIONS

The University Oklahoman: The University Oklahoman is published twice a week by the students of the university.

The Sooner: The Sooner is an annual published by the junior class.

NON-ATHLETIC ORGANIZATIONS

General Organizations

The Alumni Association: The Alumni Association was organized by the first graduates of the College of Arts and Sciences in 1898. All graduates of the university are now eligible to membership in the association.

The Student Association: The Student Association of the University of Oklahoma was organized in the spring of 1912. Every student in the university is a member of it. The executive committee of the association is the Student Council, which is composed of the officers of the association and representatives from each of the classes and departments. The aim of the association is to unify the student body, and control all activities not otherwise taken care of and all matters of general student concern.

The Athletic Association: The Athletic Association has control of intercollegiate and local athletic contests. It also has charge of the athletic grounds and equipment. Its executive body is a council composed of faculty, alumni, and student members.

The Oratorical Association: The Oratorical Association manages the intercollegiate debates and oratorical contests. It is governed by a council composed of faculty and student members.

The Women's Council: The Women's Council, organized in 1912, is composed of one representative from each of the boarding houses and groups of houses in which women students room, and two representatives at large. The function of the council is to serve as a medium of communication between the different groups, and between these groups and the administrative authorities of the university. The council establishes and enforces certain regulations affecting the social affairs of women students.

Debating and Public Speaking Societies, Law Club Courts

There are in the university several societies for public speaking, debating, study of special problems, etc. All non-athletic student organizations that may have relations with the public are under the control of the university. They must, on organization, present the plan of their proposed undertaking to the committee on non-athletic organizations and receive from the committee a certificate of approval. All organizations under the control of one or more members of the

faculty and all literary and debating societies are required to furnish from time to time such information as may be desired by the committee.

The Senate: The Senate was organized in 1897 for practice in debate and parliamentary drill. It is for juniors and seniors only.

The Forum: The Forum was organized in 1898, and incorporated in 1901. It is devoted to literary work and practice in parliamentary principles.

The Websterian: The Websterian society was organized in 1903 for practice in general literary society work. It is associated with the Forum, and admits freshmen and sophomores to membership.

The House of Representatives: The House of Representatives was organized in 1905 to co-operate with the Senate. It admits freshmen and sophomores.

The Sooner Bar: The Sooner Bar is a literary society for law students. It was organized in 1909.

The Zetalethean: The Zetalethean society was organized in 1904. It is a literary society for the women of the university.

The Philologian: The Philologian Literary Society was organized in 1912. It is a literary society for women students.

The Eudelphian: The Eudelphian is a literary society for women. It was organized in November, 1914.

The Chancery: The Chancery was organized in 1912 for practice in debating, parliamentary drill, and for discussion of questions arising in class room work and in the courts of justice. Its membership is confined to law students.

The Athenaean: The Athenaean Debating Society is an organization for students of all classes. It was organized in 1914.

Club Courts: The Monnet, the Foster, the Williams, and the Madden Club Courts are organizations for the presentation and trial of questions of law. Membership is confined to law students.

Departmental Clubs

The Pick and Hammer Club: The Pick and Hammer Club was organized in 1906 for the purpose of keeping students informed as to recent geological literature and of giving them an opportunity to present results of field investigations.

Teutonia: Teutonia is a German club organized in 1907 to give students in the department practice in the German language and familiarity with German literature.

Causerie: Causerie is a club organized by students in the French classes for practice in the French language and familiarity with French literature.

The Chemistry Club: The Chemistry Club was organized in

1908 to stimulate interest in chemistry and to furnish an opportunity for reports on original work.

The Engineers' Club: The Engineers' Club, organized in 1910, includes faculty and student members. It holds meetings once a month, at which specially prepared papers on engineering subjects are read and discussed.

American Institute of Electrical Engineers: The University of Oklahoma branch of the American Institute of Electrical Engineers was organized in 1912. It is an official branch of the parent organization. Its membership is from the students in the School of Electrical Engineering.

The Stockonian Pharmaceutical Club: The Stockonian Pharmaceutical Club was organized in 1913 for the purpose of having discussions on topics of current pharmaceutical and scientific interest. It is literary in its aims.

The Social Science Club: The Social Science Club, organized in 1913, consists of faculty and student members interested in the study of current political and social problems.

Camp Fire Girls: The organization of Camp Fire Girls was established at the University of Oklahoma in 1913. Any girl in the university is eligible to membership.

The Business Opportunity Club: The Business Opportunity Club was organized in 1914. Membership is confined to the students in the School of Commerce and Industry. The purpose of this club is to find out what opportunities there are for students after graduation. Meetings are held twice a month and lectures are given by prominent business men.

Oklushe Degataga: The Indian students in the university organized the Oklushe Degataga club in the spring of 1914. The name means "Tribes Standing Together."

The Mechanical Engineering Society: The Mechanical Engineering Society was organized by students in mechanical engineering in December, 1914.

The Zoological Journal Club: The Zoological Journal Club was organized in 1914 by the students in zoology.

Les Beaux Arts: The art students of the university organized a club called Les Beaux Arts in 1915.

Las dos Americas: The Spanish Club, organized in 1915, is composed of students of Spanish. Its object is practice in speaking Spanish.

Musical and Dramatic Organizations

Various musical organizations in the School of Fine Arts are described in the bulletin of that school. They include the orchestra,

band, glee club for men, glee club for women, choral union, opera cast, and the like. For further information see "Organizations," School of Fine Arts.

The Sooner Dramatic Club: This club dates from the year 1912. It was organized to secure "a more thorough knowledge of the drama, and practice in the dramatic art." It is under the charge of the instructor in expression, and members are selected "for their literary attainments, their character and standing."

County Clubs

The students from many of the counties in Oklahoma have organized clubs for the purpose of mutual benefit and of making the university favorably known in their home counties.

Senior Honor Societies

Pe-et: Pe-et is a senior honor organization for men. It was established in 1910. The members each year select ten successors from the junior class, the choice being based chiefly upon scholarship.

The Owl and Triangle: The Owl and Triangle, a senior honor society for women, was organized in 1912. The members are chosen largely because of their scholastic ability. The seniors each year select the eight members from the junior class who rank highest.

Professional Fraternities

The University of Oklahoma has been selected by eleven of the national professional fraternities as a suitable place for establishing chapters of their organizations.

Phi Delta Chi: Phi Delta Chi is an honorary law fraternity. The local chapter was established in 1912.

Phi Mu Alpha: Phi Mu Alpha is a national musical fraternity for men, frequently known as Sinfonia Fraternity. The local chapter was established in 1912.

Phi Beta Pi: Phi Beta Pi is an honorary medical fraternity. The local chapter was established in 1912.

Sigma Delta Chi: Sigma Delta Chi is a national journalistic fraternity. The local chapter was established in 1913.

Phi Delta Chi: Phi Delta Chi is a national pharmaceutical fraternity. The local chapter was organized in 1913.

Delta Sigma Rho: Delta Sigma Rho is a national debating fraternity. The local chapter was established in 1913. Membership is confined to those who have represented the University of Oklahoma in intercollegiate debating and oratorical contests.

Theta Sigma Phi: Theta Sigma Phi is a women's journalism fraternity. The local chapter was established in 1915.

Kappa Delta Pi: The Claxton Club, organized early in 1915, became the local chapter of Kappa Delta Pi, the national educational fraternity, later in the year.

Sigma Delta Psi: Sigma Delta Psi, the honorary athletic fraternity, established a chapter at the university in 1915.

Alpha Kappa Psi: Students in the School of Commerce and Industry were granted a charter by the Alpha Kappa Psi national commercial fraternity, in June, 1915.

Phi Alpha Tau: A local dramatic club secured a charter from Phi Alpha Tau, national dramatic fraternity, early in 1916.

Military Organizations

Engineering Corps: Company A, Engineering Corps, Oklahoma National Guard, was established at Norman in May, 1913. Men over 18 years of age are eligible.

Signal Corps: Field Company A, Signal Corps, Oklahoma National Guard, was established at Norman in June, 1913. This is the only signal corps in the state. Drill is given in wire and wireless telegraphic work in army signaling. One of the present officers of the corps is a member of the faculty of the School of Electrical Engineering of the university.

These two military organizations maintain an armory in which drills are held regularly. Considerable out-of-door work is done each year. The organizations are well supplied with suits, arms, field equipment, signaling equipment, and other material which is regularly furnished by the United States Government.

INTERCOLLEGIATE CONTESTS

Intercollegiate Debates: The University of Oklahoma contests annually with neighboring colleges in debate. All contracts and arrangements are made by the council of the Oratorical Association. In the past the university teams have competed with the universities of Missouri, Kansas, Arkansas, Colorado, Texas, and Southern California.

Intercollegiate Oratorical Contests: The university contests annually with colleges in Oklahoma and in neighboring states.

Intercollegiate Athletic Contests: Intercollegiate contests (subject to conditions regarding membership, team organization, and leave of absence imposed by the faculty) are held each year with other universities and colleges of the Southwest. All contracts and arrangements are made by the general manager of athletics with the approval of the Athletic Council.

ATHLETICS

The athletic sports and games of the University of Oklahoma are under the direction of the Athletic Association and the Athletic Council. The association is an organization of students for the encouragement and development of athletic sports. The council is made up of nine members: four students, four members of the faculty, and one alumnus. The four student members and one of the faculty members are elected by the athletic association; the alumnus, and the other three faculty members are appointed by the president of the university.

The Athletic Council has full control of all athletic sports, of the athletic grounds, and of all funds and properties of the association. It appoints all delegates to the conferences of any athletic association of which the University of Oklahoma is a member, selects all coaches, and awards all athletic honors. It also decides all questions as to the eligibility of players except those that have to do with scholastic standing, which are decided by the committee on eligibility. It is also vested with the right to award all athletic emblems.

The committee on eligibility is a committee of three appointed by the president of the university from the members of the faculty. It administers the regulations as to the number of hours and the quality of work that must be carried by students before they are permitted to play on any athletic team.

Eligibility in Athletics

1. A person eligible to compete in any intercollegiate contest must be regularly enrolled for and must be maintaining his class standing in at least twelve hours of work, and must be enrolled not later than thirty days after the opening of the semester in which the contest takes place.

2. At least once during the semester the committee on eligibility shall investigate the class standing of the several members of the teams, and shall report to the general manager the names of those found deficient.

3. The investigation for the first semester shall be on or before the first of November, and for the second semester shall be on or about the first of May, and at such other times as the committee shall desire.

4. A student whose standing at the investigation shall fall below C minus in more than one subject may not compete in any intercollegiate event until such deficiency shall be made up to the satisfaction of the instructor or instructors concerned.

5. A student failing to pass unconditionally in at least twelve

hours of work in any semester may not compete in any intercollegiate event during the next semester he is enrolled. This rule may be waived by the committee on eligibility in case of a student who receives a certificate of honorable withdrawal on account of sickness or other unavoidable cause; of one who enrolls after the close of the foot-ball season; and of one who removes conditions, increasing the total of his credits for the preceding semester to twelve hours not later than the first Saturday of the semester following the one in which the conditions were received; but this shall not be construed to entitle any such student to ask for a special examination for the purpose of endeavoring to remove conditions. This rule shall however in no case violate rule 1.

6. Technical work in the School of Fine Arts, except for students regularly enrolled in that school, and the work in physical training shall not be counted in making the required twelve hours. Students enrolled in the School of Fine Arts must be enrolled in at least seven hours in subjects leading to the degree of B. M. or the certificate in art, that are not included in prescribed technical work, and must be maintaining their standing in such a way as to satisfy their instructors that they will complete at least one-half of a group in a semester as prescribed in the current catalogue. Students in art must spend at least fifteen hours a week in technical work in the art studio.

7. Unclassified students eligible to compete in intercollegiate events must have no fewer than eight units of entrance credit.

8. The term "intercollegiate contest" shall be construed to mean any contest in which the university is officially represented by a team.

General Manager of Athletics

A general manager of athletics, designated by the management of the university, works under the direction and approval of the athletic council. He has charge of all business affairs of the council, makes all schedules and contracts with other schools, keeps the records of the teams and players, accompanies the teams from home when necessary, and is charged with the enforcement of all rules of eligibility.

THE INTERSCHOLASTIC MEET

The Interscholastic Meet for locally supported high schools was established in the spring of 1905. The contestants come from the various high schools of the state, and the meet takes place every spring on the first Thursday, Friday and Saturday of May, at Norman, on Boyd Field. The Interscholastic Meet includes track and field contests; a tournament in tennis singles; a tournament in tennis doubles; a championship baseball series; musical contests for three scholarships in

piano, three in violin, six in voice, including three for girls and three for boys; a boys' glee club contest, a girls' glee club contest; an orchestra contest; an art contest; a dramatic reading contest; an oratorical contest; contests to decide the championship in the Oklahoma High School Debating League series; contests for current and annual high school publications; and contests in manual training, mechanical drawing, and domestic science. The State High School Conference for teachers, principals and superintendents is held in connection with the meet. Inquiries concerning this meet should be addressed to the Interscholastic Meet Committee, University of Oklahoma, Norman, Oklahoma.

MORAL AND RELIGIOUS TRAINING

Religious exercises, consisting of scripture readings, singing, and prayer, are held once a week in the university assembly. At these exercises a special lecture or address by some noted speaker is given each week. Although attendance is voluntary, the purpose of cultivating the moral, religious, and social spirit of the university is heartily recognized. Weekly prayer meetings are held by the Christian associations of the university.

The Christian Associations: The Young Men's and Young Women's Christian Associations are the centers of the religious life of the university, and they are active in all forms of moral and Christian work properly within the scope of such organizations. All students are invited to membership, either active or associate. The Y. M. C. A. holds devotional meetings every Sunday afternoon at 3:30 o'clock. The Y. W. C. A. holds devotional meetings every Monday afternoon at 4:30 o'clock. In addition to these meetings the associations carry on social work, and they aim to become a practical help to the students in their university life. Members meet new students at the trains, aid them in securing suitable rooms and boarding places, hold receptions at the opening of the year and at various other times. The secretary and officers of each association are glad to be helpful on all occasions.

Y. M. C. A. and Y. W. C. A. Secretaries: The Y. M. C. A. and the Y. W. C. A. now maintain permanent general secretaries. They act also as secretaries of the student employment bureaus.

Y. M. C. A. Building: In 1914 the Young Men's Christian Association acquired a house which is used as a Y. M. C. A. building. This property, which faces the campus, contains the office of the Y. M. C. A. secretary.

City Churches: The churches of Norman extend a cordial invitation to students to join them in their work.

DEAN OF UNDERGRADUATES

In 1915 the office of dean of undergraduates was created. The purpose of the office is to give advice and assistance to the students of the university, both men and women, whenever requested, and to provide control and direction if such becomes necessary. Students are expected not to participate in functions not approved by the dean of undergraduates.

FEES AND DEPOSITS

Tuition is free in all departments of the university to residents of Oklahoma. Non-resident students are required to pay tuition. Students taking private lessons in the School of Fine Arts must pay the prescribed fees. All students will be held responsible for damage to or loss of equipment and instruments, and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

In all laboratory courses students must pay the actual cost of material used. In some courses a fixed charge based upon the estimated cost of material is made and must be paid before beginning the work. In most laboratory courses a laboratory coupon card must be purchased by the student for each course and deposited with the instructor. From this card the cost of materials issued to the student will be taken at the time of issue. Such additional coupon cards as may be necessary must be purchased from time to time. Any unused portion of such laboratory coupon cards will be refunded in cash at the end of the year, or when the student leaves the university, provided he notifies the financial clerk at the time of departure that he must withdraw; but no such refund will be made after the close of the fiscal year, July 1.

In the following courses laboratory coupon cards must be purchased. The cost of these courses will vary for different students, but will be approximately as follows:

Anatomy 1	$ 2.00
Anatomy 2, 3, 4, each	15.00
Bacteriology 1, 101, 102, 103, each	5.00
Bacteriology 2, 3, 6, each	3.00
Botany 104, 105, each	3.00
Chemistry 2, 3, 10, 21, 51, 101, 125, 152, 212, 222, each	5.00
Chemistry 1, 4, 5, 6, 7, 102, 103, 104, 105, 106, 107, 108, 122, 123, 124, 126, 127, 155, 250, 251, 252, each	10.00
Domestic Science 1, 2, 3, 4, each	2.00
Embryology 1	3.00
Geology 102, 103, each	3.00

Histology 1	$ 2.00
Materia Medica 5	1.00
Pathology 2, 7, 102, 103, each	3.00
Pharmacology 1	3.00
Pharmacy 2, 3, 7, 8, 9, each	5.00
Physiology 1, 6, 7, each	3.00
Shop 1, 3, 4, each	3.00
Shop 2	5.00
Zoology 1, 2, 3, 25, 100, 102, 103, 105, 106, 107, 200, 201, each	3.00

The fixed charges are as follows:

Non-Resident Tuition Fee. (The amount of this fee may be ascertained from the financial clerk.)

Graduation fee for master's degree	$10.00
‡Clerical fee for late registration	2.00
Clerical fee for re-enrollment after withdrawal	2.00
*Clerical fee for each "change of studies" card or "reinstatement" card	1.00
Botany 1, 3, 4, 101	1.00
Botany 102	2.50
Materia Medica 4	1.00
School of Medicine, third year laboratory	10.00
School of Medicine, fourth year laboratory	10.00
Hospital fee (Oklahoma City), each hospital	5.00
†Library deposit	3.00
⁂Student enterprise ticket	5.00

‡Students who do not complete their enrollment by the time the first classes meet each semester will be charged a fee of $2.00 for extra clerical labor.

*This does not apply during the first two weeks of the semester.

†Each student is required to pay $3.00 as a library deposit. At the close of the school year, or sooner, if the student withdraws from the university, two dollars of this deposit will be refunded after fines for breaking library rules or misusing books have been deducted.

⁂The fee of $5.00 for a student enterprise ticket will be collected from each student by the financial clerk of the university as agent for the Student Association. This ticket entitles the student to admission to lecture course numbers, and to debating, athletic, musical, oratorical, dramatic, and other general university affairs. The payment of this fee is not compulsory but it is expected that each student will purchase the ticket because of the many advantages accruing therefrom, and because it is necessary that every student buy one in order to make this plan of supporting student affairs a success. It is hoped, therefore, that the loyalty of the students toward the general interests of the uni-

versity will be such that there will be no requests for exemption from this payment.

Fine Arts Fees

Tuition is free in all courses offered in the School of Fine Arts. For individual lessons the university collects fees for the respective instructors as follows:

For preparatory music, piano, voice, or violin, two thirty-minute lessons a week, $18.00, $27.00, $36.00, or $45.00 a semester depending on which instructor is chosen.

For applied music (piano, voice, violin) Groups I, II, III, or IV, two thirty-minute lessons a week, $18.00, $27.00, $36.00, or $45.00 a semester depending on which instructor is chosen.

For instruction in band and orchestra instruments, two thirty-minute lessons a week, $18.00 a semester.

For courses in expression, first, second, or third year, two thirty-minute lessons a week, $27.00 a semester.

Fees are payable strictly in advance and no lessons will be given until a receipt from the financial clerk is presented to the instructor.

Fees are not refunded except when a student must discontinue his lessons for unavoidable cause.

Students absent from more than one-third of the lessons for which they are enrolled in applied music or expression will be dropped and no fees will be refunded.

In the courses in drawing, painting, and domestic art, students must pay for their own material.

BOARD AND ROOMS

Board, including furnished rooms, can be had for from $4.00 to $6.00 a week. The average cost of living is as low in Norman as in any other town of its size in the state. The general advance in prices, however, so noticeable during the past several years, has increased the cost of living here as elsewhere. Although the increase is not serious, it should be borne in mind; for whereas several years ago plain table board could be had for $2.00 a week, it costs now from $3.25 to $4.50. Rooms for two may be secured for $6.00 to $14.00 a month.

Men who desire assistance in finding rooms and board should apply to the Y. M. C. A. Secretary. Women should consult the Y. W. C. A. Secretary.

Men and women students are not permitted to room in the same house.

DORMITORIES

The following dormitories have been established by various religious organizations for the purpose of providing for the students

homelike surroundings under Christian influences. Each of them is equipped with modern conveniences, including steam or furnace heat, and is in charge of a competent matron or superintendent.

King Hall, a dormitory for young women, was opened in September, 1910. This is owned and controlled by the Protestant Episcopal Church. Those interested should address the Matron, King Hall, Norman, Oklahoma.

The Young Women's Christian Association dormitory was opened in September, 1914. It is controlled by the Young Women's Christian Association of the university, and is open to all women students. Those interested should address the Y. W. C. A., Norman, Oklahoma.

The property owned by the Young Men's Christian Association, furnishes living accommodations for a limited number of men. Inquiries should be addressed to the Y. M. C. A., Norman, Oklahoma.

The Christian Church dormitory is in the Christian Church building. It accommodates about thirty men and is open to all men attending the university. Those interested should address the pastor of the Christian Church, Norman, Oklahoma.

OPPORTUNITIES FOR SELF-SUPPORT

There is work to do at the University of Oklahoma and in the city of Norman by which students may support themselves wholly or in part while attending school. The university can not promise employment to any one, and it does not encourage young people to enroll who are entirely without resources, but it does assist deserving students who show a willingness to help themselves. The Young Men's and Young Women's Christian Associations are active in helping students, and prepare lists of places where work may be had each semester. The Christian association secretaries are secretaries of the student employment bureaus for men and for women. Every year students add to their income by their labor outside of school hours; but they rely on their own ability, industry, and character in all cases. Those older in residence and known to be capable have the better opportunity. The business men of Norman and the citizens in general are in sympathy with the young people of the university and favor them whenever possible. Those with trades—stenographers, printers, etc.—find work as readily in Norman as they would in any other Oklahoma town of 5,000 inhabitants. Others can get odd jobs to do by the hour. Students who must work their way are usually advised to plan for an extra year in which to finish their course. Those desiring to secure work should address the Secretary, Student Employment Bureau, University of Oklahoma, Norman, Oklahoma.

SCHOLARSHIPS AND PRIZES

Fellowships and Scholarships: Appointments to fellowships and scholarships are usually made upon the recommendation of the head of the department concerned. Students who have done work in residence at the university are, as a rule, chosen for these positions. Fellowships as a rule are awarded to candidates for a graduate degree, while scholarships are given to undergraduate students. The value of the fellowships and scholarships depends upon the nature and amount of work to be done. For the year 1915-16 the following fellowships and scholarships were awarded:

Fellowship in education. Scholarships in chemistry, drawing, electrical engineering, journalism, Latin, medicine, music, pathology, physical education, public speaking, and zoology.

The Garber Cup: In May, 1906, Judge M. C. Garber, of Enid, presented to the Forum and Senate literary societies a trophy cup for excellence in public speaking and parliamentary practice, which is contested for annually by these two societies.

The Render Medal: Through the courtesy of Samuel P. Render, Esq., of Oklahoma City, the School of Fine Arts holds a gold medal to be contested for annually.

Debating Prizes: Several small prizes are offered in the preliminaries for intercollegiate debates.

The Butte Debating Prize: Hon. George C. Butte, of Muskogee, in 1910 established a prize of twenty-five dollars to be awarded to the university student receiving first honors in debate. Mr. Butte offers this prize annually for ten years.

American Law Book Company Prize: The American Law Book Company offers to a third-year student in the School of Law a prize consisting of the first thirteen volumes of the Cyclopedia of Law and Procedure, to be awarded at the discretion of the law faculty. This prize, valued at $97.00, the faculty has decided to award at the time of graduation to the most meritorious student in the third-year class, taking into consideration the entire course. The award is based on grades in examinations, class-room proficiency, ability in logical and succinct statement, interest displayed in club courts and other law school activities, use of the library, and strength of character.

Callaghan & Company Prize: Callaghan & Company, law book publishers of Chicago, offer the Cyclopedic Law Dictionary as an annual prize to the student in the second-year law class who attains the highest proficiency and the best general average for the year.

The Blackstone Institute Prize: The Blackstone Institute of Chicago offers Modern American Law, a fifteen-volume legal encyclopedia, valued at $75, as an annual prize to the third-year student pre-

senting the best thesis on some local or special jurisdiction subject designated by the faculty.

Letzeiser Medals: Through the courtesy of Letzeiser & Co., of Oklahoma City, six medals, known as the Letzeiser medals, are given each year to the best all-around students in the university. Three medals, of gold, silver and bronze, are provided for men and women, respectively. The medals are awarded by a popular vote of the student body, and the eligibility of candidates is determined by their standing in scholarship and their participation in student activities.

Rhodes Scholarship: The Cecil Rhodes scholarships are of interest to all the colleges of the state. Each scholarship gives the student three years in Oxford University, in England, and carries with it a stipend of nearly $1500 a year, which will pay the expenses for college life at Oxford and for some continental travel during the summers. The examinations for the Rhodes scholarships are held at the University of Oklahoma in October of each year. These examinations are qualifying, not competitive, the scholar being selected from among those passing the examination after considering literary and athletic ability, qualities of manhood,moral force of character, etc.

The next scholarship assigned to Oklahoma will be available for 1917; the examination will be given in October, 1916.

Inquiries for further information about the Rhodes scholarships should be addressed to the Secretary of the University of Oklahoma, Norman, Oklahoma.

John Barbour Prizes: Prizes are offered to the senior and junior classes in the School of Pharmacy by John Barbour, a graduate of the school, as follows:

1. Recommendation to membership in the American Pharmaceutical Association, with one year's dues to each of two seniors who receive the highest grades in all courses pursued during their senior year.
2. A leather-bound, indexed copy of the National Standard Dispensatory to the junior student who receives the best average grade in all branches.

Ames Peace Prize: An annual cash prize of $25.00 is offered by Hon. C. B. Ames of Oklahoma City to the winner of the peace oratorical contest at the university. The first prize was awarded in 1916.

Harlow Prize: For the year 1915-16 a cash prize of $25.00 has been offered by Mr. Rex F. Harlow, of Oklahoma City, for the best oration on prohibition.

CERTIFICATES FOR TEACHERS

Graduates and undergraduates of the university may receive first grade teachers' certificates under certain conditions which are set

forth under "Certificates for Teachers" in the "School of Education."

An examination of candidates for any one of the various grades of state certificates is held at the university the last Thursday, Friday, and Saturday of May.

RAILWAY CONNECTIONS

Norman is easily reached by way of the Santa Fe railway.

The interurban line furnishes hourly service between Norman, Oklahoma City, El Reno, Edmond, Britton, Yukon, and Moore, and makes it convenient for students living in these towns, or changing cars at Oklahoma City, to reach Norman without delay.

OFFICIAL NOTICES

Students should watch the bulletin board for notices. An official notice, properly posted, is considered sufficient information to students of any necessary changes in program or of other changes of a similar nature.

THE UNIT OF CREDIT

The "hour," as used in the university, is understood to mean one hour of class work with at least two hours of preparation, or the equivalent, i. e., three hours of laboratory or field work, each week, for one semester.

INFORMATION ABOUT REGISTRATION

Method of Enrollment

The plan of registration in effect at the university requires each student to make out his own enrollment. Careful study of the catalogue and reference to the semester program will enable the student to enroll himself properly. Any student desiring assistance in making a proper selection of studies may secure it from his official adviser (freshmen in the College of Arts and Sciences should consult the dean and not the freshman advisers); but neither the adviser nor the university assumes any responsibility whatever for seeing that the student arranges his work so that he can complete the requirements for graduation.

How to Enroll

1. New students should first secure a certificate of admission from the Registrar or from the Committee on Admission. (For full information, see "Admission.")

2. A "Request for Enrollment" blank should be obtained at the registry office.

3. On the "Request for Enrollment" blank the subjects desired should be listed. Conflicts between classes must be avoided, and the regulations of the school or college in which the student enrolls must be complied with as well as the requirements for graduation. **No credit is given for courses not properly elected.**

4. The following regulations govern all students. For additional information the student should refer to the description of work in the school or college in which he desires to enroll.

a. No student is permitted to enroll for an excessive amount of work. The limit of hours is at the discretion of the faculty of the school or college in which the student is enrolled.

b. Except for extraordinary cause students enrolled in schools which have a prescribed course, such as law, medicine, pharmacy, and engineering, will not be permitted to vary from the regular schedule of work.

c. Prescribed subjects must be chosen in preference to electives.

d. Courses the equivalents of which have been credited for entrance, may not be elected for college credit.

e. All students entering the university are required to take the prescribed work in physical education during the first year. This does not apply, however, to students entering with at least one year's work of college rank, accepted in full by the university. For a sufficient reason the faculty may excuse a student from complying with this requirement in whole or in part. Students desiring to be excused must secure a blank permit from the registry office and have it approved by the faculty concerned. Students enrolled in courses in physical education may be excused from classes by the director of physical education while engaged in systematic participation in athletic sports under the direction of the athletic director or coach.

f. No beginning work in a foreign language is credited toward a degree, or toward the removal of entrance conditions, unless carried satisfactorily through both semesters. No credit will be given for less than a year's work in public speaking.

g. Students enrolling in classes which are given in more than one section should put on the "Request for Enrollment" blank simply the course number. The assignment to a section will be made by the registrar. The student's preference of sections may be indicated on a card provided for that purpose and will be followed as closely as possible.

h. A student failing in a subject required for graduation must, if possible, take it again the next time it is given.

i. Special privileges may be obtained only from the dean.

5. After the "Request for Enrollment" blank has been filled out and signed, it must be taken to the registry office for the signature of the registrar. If the choice of subjects is not regular, the registrar will notify the student either to make such changes as are necessary or to secure the approval of the dean.

6. After the signature of the registrar has been secured, the student will file the card with the financial clerk and pay the prescribed fees. The enrollment is not complete until this is done.

7. After the card has been filed with the financial clerk, changes in courses or changes in sections can be made only on forms furnished by the registry office.

8. No instructor will admit a student to a class in which he is not regularly enrolled, nor will credit be given for a subject pursued without registration.

9. Late registration should be avoided. Students may not enroll for a full course at a late date.

10. No student will be allowed to change from one college or school

to another without the written certificate of honorable dismissal from the dean of the school last attended, and such change will not be granted later than two weeks after the opening of the semester.

11. Work may be taken in more than one school, subject to the approval of the deans concerned.

Advisers About Enrollment

New students, freshmen, and unclassified students wishing advice before filling out the "Request for Enrollment" blank should confer with the dean of the school or college in which they desire to register; all other students may secure advice from their major professor (in the College of Arts and Sciences) or their director (in the College of Engineering), or from the dean of their school or college.

When to Enroll

It is urged that every student, old or new, complete his enrollment either in person or by mail prior to the opening of the semester. This may be done at any time after the semester program is issued. Fees need not be paid, however, till the Saturday preceding the opening of the session, as indicated below. This applies to the summer session as well as to the regular school year. There is no penalty whatever for failure to complete the registration after application has been made.

1. New students and those not in attendance during the session previous to the one in which they desire to enroll may complete their enrollment at any time before the opening of the semester, including the two days set apart for registration at the beginning of the semester. All deans, directors, and major professors will be in their offices during these two days to assist new students with their enrollment.

2. Students attending the university during the first semester of the school year must complete their enrollment for the following session, including payment of fees and deposits, before the Saturday noon preceding the close of the first semester. Students attending the university during the second semester or the summer session, who expect to return in the fall, must file their registration cards with the financial clerk and ascertain the amount of their fees and deposits before the Saturday noon preceding the close of the semester. The payment of fees for the fall semester may be delayed until not later than the Saturday noon preceding the opening of school.

Students failing to do this may not enroll until after the two registration days mentioned in the preceding paragraph, but may enroll at a later date upon payment of the fee for late registration.

Fee for Late Registration

Any student enrolling after the close of the regular registration period will be required to pay a fee of $2.00 for extra clerical labor.

Change of Studies

A student desiring to make a change in his enrollment within two weeks from the first class day of the semester may do so by securing the approval of the registrar. No change of studies will be permitted after that date except for extraordinary reasons, and then only upon the approval of the dean and the payment of a fee of $1.00 for extra clerical labor. Blanks for such change may be secured at the registrar's office and must be filed with the financial clerk in the same manner as the original study card. Membership in the class does not cease until the card is filed with the financial clerk.

Absence From Recitation

To pursue work properly in the university a student should be present at each meeting of the class. If he is obliged to be absent from any recitation or lecture on account of sickness, or other unavoidable cause, he should report promptly to the instructor the reason for the absence. Violation of the above subjects the student to such penalties as may be imposed at the discretion of the several faculties.

Students (except in the School of Law, which imposes penalties in accordance with the rules of its own faculty) who are absent from class twice as many times as the class meets each week are automatically dropped from the class and will receive a mark of failure in the course. It is within the discretion of the dean and the instructor to reinstate such students. Absences immediately preceding or following a regular holiday or recess count double. Absences are never excused.

Withdrawal

Permission to withdraw from the university before the close of the semester should be secured from the dean and filed with the financial clerk. Otherwise a certificate of honorable withdrawal or a refund of deposits will not be granted, and the student will receive a mark of failure in all courses. (In the College of Engineering a student may not receive honorable withdrawal from a class in which his standing is unsatisfactory.)

Examinations

An examination at the end of each semester closes the work to that point.

Reports to Parents and Guardians

As soon after the close of the semester as all the grades are reported to the registrar, duplicate reports of the student's class stand-

ing will be made out, one copy of which will be mailed to the student's parent or guardian, and the other copy handed or mailed to the student upon request.

Passing Grades

Students' grades in all courses are filed with the registrar and the records in his office are the official records of the university. The passing grades used are: A, A minus, B, B minus, C, C minus. A is the highest passing mark; C minus, the lowest.

Conditions and Failures

A student who fails to complete the work of any course will receive a mark of F, D, or I. "F" means failure. "D" and "I" both mean conditioned. "D" means conditioned because of poor quality of work for which no credit is granted except upon re-examination and no grade higher than a "C" can be given. "I" means that a good student with a class standing of "C minus", or better, has failed to complete some small portion of his assigned work. Instructors giving an "I" must state upon the reverse side of the report card the portion of the work incomplete.

Conditions of "D" or "I" must be removed within a year if credit for the work is desired. A mark of "F" is recorded for all "D's" not removed within this time.

Excessive Failures

Students receiving a mark of failure or condition in more than one-third of the work in which they are enrolled in any semester forfeit their connection with the university. It is within the discretion of the faculty to reinstate such students on proper petition and showing. In applying this rule, marks of "I" are not counted.

ADMISSION

ADMISSION

GENERAL REQUIREMENTS FOR ADMISSION

The work of the several undergraduate schools and colleges of the university is planned to follow the completion of at least four years' preparation in an acceptable high school, or the equivalent, except as provided for in the two-year plan of work of the School of Pharmacy, and in the School for Nurses. The School of Medicine requires in addition a year of college work. After January 1, 1917, two years of college work will be required.

Applicants for admission to the College of Arts and Sciences, the College of Engineering, and the School of Fine Arts must be at least sixteen years of age, but for admission to the School of Pharmacy and the School for Nurses, applicants must be at least seventeen, and to the School of Law and the School of Medicine, at least eighteen. No age limit is set for admission as an unclassified, or as a preparatory, student in music in the School of Fine Arts.

The university is open on equal terms to both sexes.

Admission may be either by examination or by certificate, or by both, and may be to freshman, to unclassified, or to advanced standing.

ADMISSION BY EXAMINATION

The Committee on Admission will conduct entrance examinations at the university on Friday and Saturday following Commencement in June; on Monday and Tuesday of the opening week of school in September; and on Friday and Saturday preceding the beginning of the class work of the second semester, in such subjects as are called for one week before the date set for the beginning of the examinations. All applicants who do not hold certificates of admission should obtain permission from the Chairman of the Committee on Admission to present themselves for examination. This examination is not open to persons who have already matriculated as students in the university.

ADMISSION BY CERTIFICATE

Applicants may be admitted without examination on presentation of properly indorsed certificates from affiliated schools, or on credentials from other schools of recognized standing.

All applicants for admission should file their certificates with the registrar at least two weeks before the opening of school.

ADMISSION TO FRESHMAN STANDING

Fifteen properly selected units of credit secured either by examination, or by certificate from an acceptable school, will admit students to freshman standing, except as indicated in the table below.

Students expecting to enter a professional school should see that they take such subjects in high school as will prepare them to meet the prescribed entrance requirements of the school chosen.

The following table shows the units in each subject that are required for admission to the several undergraduate schools of the university. City superintendents and principals of the high schools should familiarize themselves with these requirements and advise students to take those subjects that will best qualify them for admission to the school of their choice. A list of the subjects that may be presented for entrance credit will be found under "Subjects Accepted for Admission."

	Schools and Colleges							
Subjects	Arts and Sciences	Engineering	Fine Arts	Law	Medicine	School for Nurses	Pharmacy Three Y's & Four Years	Pharmacy Two Years
English - - - -	3	3	3	3	3	2	3	2
Algebra - - - -	1	1 1-2	1	1	1	1	1	1
Geometry - - - -	1	1 1-2	----	1	1	----	1	----
History - - - -	1	1	1	----	1	1	1	1
One Foreign Lang. -	2	2+	2	----	2‡	1††	2††	1††
Physics - - - -	1*	1*	----	----	1	----	1	----
Elective - - - -	6	5	8**	10	6	2	6	2
Total	15	15	15	15	15†††	7	15	7

*Chemistry, one unit; botany, one unit; zoology, one unit; or botany and zoology, one-half unit each, may be substituted.

+German preferred in chemical engineering.

**Three of these units are credited for the technical work in piano or in violin required for admission to the music courses.

‡ German or French preferred.

††Latin preferred.

†††One year of college credit in addition to the fifteen units is required. After January 1, 1917, two years of college work will be required.

DEFINITION OF UNIT

The requirements for admission to freshman standing are usually stated in units. The unit of entrance credit is the standard amount of work required in a secondary school subject given thirty-six weeks, with five recitation periods a week, of forty-five minutes each, or with four recitation periods of sixty minutes each.

For a subject carried eighteen weeks with five recitation periods a week of forty-five minutes each, one-half unit of credit is given. One-half unit is also given for a subject carried thirty-six weeks with three recitation periods a week of forty-five minutes each.

DEFICIENCIES IN REQUIRED SUBJECTS

High school graduates presenting fifteen units, including three of English and two of mathematics, will be admitted to freshman standing. Conditions may be removed in the manner provided below for making up deficiencies, or they may be removed by the completion of equivalent college work. Such college work may be counted as elective hours of college credit.

DEFICIENCIES IN AMOUNT OF ENTRANCE CREDIT

Applicants for admission presenting only fourteen units for entrance, including three of English and two of mathematics, may be admitted to freshman standing in the College of Arts and Sciences, College of Engineering, or School of Fine Arts, but before they are graduated they must complete five hours of college credit in addition to the amount required for graduation; similarly, applicants presenting only fourteen and a half units must complete three hours extra college credit before graduation. If the deficiency in entrance units is in a required subject the three or five hours extra credit must be earned in that same subject.

Such applicants must be high school graduates or mustbe recommended for admission by the authorities of the high school last attended.

Five hours will be deducted from the student's college credit for each unit deficiency until the deficiency is otherwise satisfied.

UNCLASSIFIED STUDENTS

Applicants, not candidates for a degree, may be admitted to such work as they are prepared to take. Such applicants for admission must be twenty-one years of age, or must satisfy the requirements for admission to freshman standing, except as provided in the School of Fine Arts.

Admission as an unclassified student is subject to the approval of the dean of the college or school concerned.

ADVANCED STANDING FOR WORK DONE IN HIGH SCHOOLS

College credit for work done in high schools will be given only for advanced courses taken after graduation from the high school, and will be approximately half of the time given. That is, a student taking a fifth year in the high school cannot expect more than a half year's credit in the university.

ADVANCED STANDING FOR WORK DONE IN NORMAL SCHOOLS

Students who have completed work of college rank in the state normal schools of Oklahoma are admitted to the university with advanced standing in the College of Arts and Sciences, credited at the rate of thirty hours for the full year's work. Such credit will be given only for courses taken after the completion of fifteen standard entrance units. Sixty hours is the maximum amount of credit that will be given for normal school work, except that additional credit not to exceed four hours in physical training may be given.

ADVANCED STANDING FOR WORK DONE IN OTHER COLLEGES AND UNIVERSITIES

Students from other colleges who have pursued standard college courses equivalent to those of the University of Oklahoma will receive credit for such courses upon presentation of proper certificates of creditable standing and honorable dismissal.

All applications for advanced standing must be filed at or before matriculation. Students coming from approved colleges whose requirements for admission are substantially those of the University of Oklahoma will be admitted ordinarily to equal standing, provided they enter not later than the beginning of the senior year. The full equivalent of senior work must be completed in residence before a degree will be granted.

Examination for advanced standing may be given to applicants who have had systematic courses, but who cannot furnish satisfactory credentials showing that they have taken the work in an approved college. The Committee on Advanced Standing will determine the total credit so obtained, and the subjects upon which examinations will be given. No student will be allowed to take an examination for advanced standing until he has secured a properly certified permit.

No examination will be given to students in subjects in which they have received conditions or failures in other colleges.

COMBINED COURSES OPEN TO STUDENTS OF PHILLIPS CHRISTIAN UNIVERSITY

Arrangements have been made with Phillips Christian University whereby students who complete three years of work in that institution may enter the School of Law, the School of Medicine, or the College of Engineering of the University of Oklahoma and count the first year's work here as the last year required for graduation at Phillips Christian University, thus saving a year in the time required to obtain both an academic and a professional degree.

ADMISSION TO THE GRADUATE SCHOOL

For admission to graduate standing, see catalogue under the head: "Graduate School."

THE GRADUATE SCHOOL

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

ALBERT HEALD VAN VLEET, Ph. D.
Dean of the Graduate School, Professor of Botany.

EDWIN DEBARR, Ph. D.
Vice-President of the University, Professor of Chemistry

JAMES SHANNON BUCHANAN, B. S.
Professor of History.

*JOSEPH FRANCIS PAXTON, A. M.
Professor of Greek and Classical Archaeology.

ROY GITTINGER, A. M.
Professor of English History.

JAMES WELLINGS STURGIS, Ph. D.
Professor of Latin.

SAMUEL WATSON REAVES, Ph. D.
Professor of Mathematics.

JAMES HUSTON FELGAR, A. B., M. E.
Professor of Mechanical Engineering.

SARDIS ROY HADSELL, A. M.
Professor of the English Language.

GUY YANDALL WILLIAMS, Ph. D.
Professor of Physical Chemistry.

HENRY HIGGINS LANE, Ph. D.
Professor of Zoology.

JEROME DOWD, M. A.
Professor of Sociology and Economics.

*THEODORE HAMPTON BREWER, M. A.
Professor of English Literature.

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*On leave of absence, 1915-16.

LUCILE DORA, M. A.
Professor of the Romance Languages and Literatures.

LOUIS ALVIN TURLEY, A. M.
Professor of Histology and Pathology.

MONROE ALLEN FLOYD, A. M.
Associate Professor of History.

HAROLD VEATCH BOZELL, B. S.
Professor of Electrical Engineering.

JOHN HENRY VOSS, M. A.
Associate Professor of German.

HERBERT BANCROFT DWIGHT, B. S., E. E.
Professor of Mechanics.

CHARLES HENRY TAYLOR, M. S.
Professor of Geology.

WILLIAM PETER HASEMAN, Ph. D.
Professor of Physics.

ERRETT RAINS NEWBY, B. M., B. A.
Secretary, Registrar.

JOHN ALLEY, A. B.
Professor of Government.

†ROY TEMPLE HOUSE, A. M.
Professor of German.

JAMES IRWIN TUCKER, B. S., LL. B.
Professor of Civil Engineering.

GAYFREE ELLISON, B. S., M. D.
Professor of Bacteriology.

ANDREW CLARKSON PARSONS, A. B.
Professor of Secondary Education.

WARREN WAVERLEY PHELAN, Ph. D.
Professor of Psychology and Education.

LEONARD BLAINE NICE, Ph. D.
Professor of Physiology.

EDMUND PENDLETON RANDOLPH DUVAL, A. M.
Associate Professor of Mathematics.

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†On leave of absence, second semester, 1915-16.

WILLIAM ANTON SCHMIDT, M. A.
Professor of the History and Administration of Education.

RICHARD GRAY SOUTAR, B. A.
Professor of Physical Education.

JESSE LEE RADER, M. A.
Librarian.

PATRICIO GIMENO, B. A.
Associate Professor of Romance Languages.

HAROLD HARVEY HERBERT, A. B.
Associate Professor of Journalism.

MAURICE GOLDSMITH MEHL, Ph. D.
Associate Professor of Geology.

THE GRADUATE SCHOOL

The University of Oklahoma offers graduate instruction to those who desire a more thorough preparation than is offered by the various undergraduate schools and colleges.

The legislative faculty of the Graduate School is composed of the professors and associate professors of the faculties which offer graduate work.

ADMISSION

Students holding the bachelor's degree from this university or from some other acceptable institution are admitted to the Graduate School. Other persons suitably qualified may be admitted upon such conditions as may be imposed in each case by the Committee on Graduate Studies.

Candidates for admission make formal application, on the proper blanks, to the Dean of the Graduate School, submitting their diplomas and other credentials. Candidates from other institutions must present testimonials as to character and scholarship.

Three classes of students are admitted: (1) those not candidates for an advanced degree; (2) candidates for an advanced degree who are deficient in undergraduate preparation; and (3) those who are prepared to select at once their major and minor subjects and become candidates for a degree at the beginning of their graduate work.

Students, not candidates for an advanced degree, who are graduates from this university, are given permission to register by the dean. Students from other institutions present their credentials to the dean who, on approval of the Committee on Graduate Studies, grants them permission to register.

A graduate student, not a candidate for a degree, who wishes to become a candidate must secure admission to candidacy at least one semester, or two summer sessions, before the degree is conferred.

Applicants for an advanced degree, who are deficient in undergraduate preparation, will have their work evaluated by the Committee on Graduate Studies. When such deficiency has been made up the dean will grant the applicant permission to register and become a candidate for the proposed degree.

Candidates for an advanced degree whose proficiency is certified

to by the Committee on Graduate Studies are permitted to register by the dean.

Students from this university who have completed the undergraduate course and have been properly recommended for graduation may register in the Graduate School even though the degree is not conferred until the close of the school year. Students from this university, who at the beginning of any semester are within four hours of graduation, may count that semester as the first of the two semesters required for residence for the master's degree. Students who are within eight hours of graduation at the beginning of any semester may, on approval of the Committee on Graduate Studies, select from the courses offered for graduate work enough to make a total of not more than sixteen hours, and this work may receive such credit towards an advanced degree as the Committee on Graduate Studies may determine.

ADVISERS

The Dean of the Graduate School is the official adviser of all students of the school. The head of the department in which the student elects his major work, however, becomes his special adviser and chairman of his special committee, which consists of his major and minor professors. The special committee outlines and has general oversight of the student's work, subject to the approval of the Committee on Graduate Studies. Enrollment cards must be signed by the major professor and the dean.

DEGREES

The University of Oklahoma offers the following advanced degrees:
Master of Arts.
Master of Science.
Master of Science in Engineering.
Chemical Engineer.
Civil Engineer.
Electrical Engineer.
Mechanical Engineer.

Requirements for the Master's Degree

Candidates who complete at least one year of graduate work, present an acceptable thesis, and pass all required examinations, will be recommended by the faculty of the Graduate School for the master's degree.

A total of not less than thirty-two hours credit must be earned with a grade of A or B. A minumum of twenty-four hours must be

completed in residence. Eight hours may be taken through correspondence courses.

Candidates shall chose a major study and one or two minor studies. To each minor shall be devoted approximately one-half of the work devoted to the major study. The major and one minor may fall within the same department, but must be taken under different instructors. If two minors are selected, one must be chosen from another department.

With the consent of the Committee on Graduate Studies and the departments concerned, courses from closely related subjects may be chosen from departments other than those in which the major and minors lie. If the work be chosen from not more than two departments and the courses in the major department are selected principally from those listed for graduates only, the degree may be qualified by the name of the major department.

No work done in the major subjects may count towards the master's degree until the departmental requirements as to previous work have been complied with, which shall in no case be less than twelve hours.

Members of the legislative faculty of the Graduate School may not become candidates for a higher degree.

Candidates for this degree must meet the requirements as to examinations of the classes in which they are enrolled. Besides these course examinations, the candidates must pass an oral examination of at least two hours on all work offered for the degree, including the thesis. The examination will be conducted by a special committee appointed by the dean, of which the candidate's major professor shall be chairman.

The subject of the thesis, approved by the student's major professor, must be chosen and reported to the dean not later than four weeks after the student becomes a candidate for this degree. The completed thesis, approved by the student's major professor, must be presented to the dean at least ten days before the commencement at which the applicant expects to take his degree.

After final approval and before receiving his degree, the candidate must deposit one original and one duplicate typewritten copy of his thesis with the librarian of the university. The thesis shall be paged and bound according to a prescribed form which may be seen at the university library.

Engineering Degrees

Graduates of this institution holding the degree of Bachelor of Science in engineering or Master of Science in engineering may be granted the professional degree of Engineer, qualified by the school

in which the undergraduate work is done, upon the following conditions: The candidate must present acceptable evidence of at least three years of practice in his profession, at least one of which must have been in a position of responsibility. He shall present a satisfactory thesis upon some engineering subject. This thesis shall cover investigation carried on personally by the applicant for the degree. The thesis must be presented in its final form to the Dean of the College of Engineering not later than May 1 of the year in which the degree is to be granted. The candidate shall furnish two typewritten bound copies of the thesis and duplicate sets of all drawings, plans, specifications and other material applying to the thesis, to the university for its permanent possession. Candidates must enroll for this degree not later than November 1 of the school year in which the degree is expected.

Master's Hood

On graduation day the University presents an academic hood in university colors to each person on whom the master's degree is conferred.

Graduation Fee

Candidates for a master's degree must pay the graduation fee of $10.00 to the financial clerk of the university by April 1, if they expect to receive the degree at the June Commencement; or by July 1, if they expect to receive the degree at the August Convocation. This fee will be refunded if the candidate does not receive the degree.

Summer Session—Correspondence Courses

With the consent of the departments concerned, eight hours of credit toward a master's degree may be earned through correspondence courses,. Sixteen hours constitute full work for a semester, and eight hours for a summer session. It is therefore possible for a student to complete the work for a degree by attendance upon one semester and one summer session or three summer sessions, supplemented by eight hours of credit earned through correspondence courses. Correspondence courses may not be taken until after the completion of one semester or one summer session in residence and must be completed before the beginning of the candidate's last summer session in residence.

All correspondence courses must be approved by the student's major professor and the Dean of the Graduate School.

FELLOWSHIPS

A limited number of fellowships, paying from $180.00 to $225.00 a year, will be available in the Graduate School. The departments in which these fellowships are available will vary from time to time

in accordance with the needs of the university. Fellows will be required to give approximately one-fourth of their time to teaching or other work in connection with the department. Applications for fellowships should be made to the Dean of the Graduate School before the first of March preceding the college year for which the assignment is made.

COURSES FOR GRADUATE WORK

For description of courses, see the corresponding numbers under the several departments of the College of Arts and Sciences and the College of Engineering.

Courses are listed here in two groups: those suitable for a minor only, and those that may also count towards a major.

Bacteriology:

Minors, 101, 102, 103.

Botany:

Minors, 101, 102, 103, 104, 105, 106, 107.

Chemistry:

Minors, 101, 102, 121, 123.

Majors, 103, 104, 105, 106, 107, 108, 122, 124, 125, 126, 127, 151, 152, 153, 154, 155, 200.

Economics:

Minors, 100, 101.

Majors, 102, 103, 104, 105, 200, 201.

Education:

Minors, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145.

Majors, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 201, 202, 203, 204, 205.

English:

Minors, 110, 111, 112, 113, 116, 117, 118, 119.

Majors, 100, 101, 102, 106, 107, 108, 109, 121, 125, 200, 201.

French:

Minors, 100, 101, 103, 104, 105, Education 134.

Geology:

Majors, 100, 101, 102, 103, 104, 105, 106, 107, 111, 112, 113, 200, 201, 202, 203.

German:

Minors, 116, 117, 118, 119, Education 135.

Majors, 110, 111, 12, 113, 114, 115. 120, 121, 123, 124.

Government:
Minors, 100, 101, 102, 103, 104, 105, 106, 200.

Greek:
Minors, 100, 101.

History:
Minors, 105, 151, 152, 155, 156, 157, 159, 160, 161, 167, 168.
Majors, 101, 102, 106, 108, 109, 110, 158, 209, 210, 211, 212.

Journalism:
Minors, 100, 101, 102, 104, 105, 115, 150, 151.

Latin:
Minors, 100, 101, 102, 103, 104.

Mathematics:
Minors, 117, 118.
Majors, 122, 125, 126, 131, 135, 136, 137, 138, 141.

Pathology:
Minors, 101, 102, 103.

Philosophy:
Majors, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 112. 113, 114, 115, 201, 202.

Physics:
Minors, 100, 102, 103, 104, 105, 106, 107, 109, 200, 210, 211, 220, 221.
Majors; 200, 210, 211, 220, 221,

Physiology:
Minors, 101, 102.

Sociology:
Minors, 100, 101, Zoology 104.
Majors, 102, 103, 104, 200, 201, 202, 203.

Zoology:
Majors, 100, 101, 102, 103, 104, 105, 106, 107, Education 137, 200, 201.

Chemical Engineering: (See chemistry.)

Civil Engineering:
Minors, 151, 152, 154, 155, 156, 157, 158, 160, 161.
Majors, 200, 201, 202, 203, 204, 205, 206, 207, 208.

Electrical Engineering:
Minors, 161, 162, 163, 164, 165, 171, 172, 173, 175, 176, 177, 178, 179, 182.
Majors, 201, 202, 203, 204, 205, 206, 207, 208, 209.

Engineering. Major in any of the schools of engineering, 201, 202, 203.

Mechanical Engineering:

Minors, 153, 154, 155, 158, 161, 162, 163, 164, 165, 166.
Majors, 200, 201, 202.

Mechanics:

Minors, 151, 152, 153, 154, 155.

THE COLLEGE OF ARTS AND SCIENCES

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

JAMES SHANNON BUCHANAN, B. S.
Dean of the College of Arts and Sciences, Professor of History.

EDWIN DEBARR, Ph. D.
Vice-President of the University, Director of the School of Chemical Engineering, Professor of Chemistry.

*JOSEPH FRANCIS PAXTON, A. M.
Professor of Greek and Classical Archaeology.

ALBERT HEALD VAN VLEET, Ph. D.
Professor of Botany.

ROY GITTINGER, A. M.
Dean of Undergraduates, Professor of English History.

JAMES WELLINGS STURGIS, Ph. D.
Professor of Latin.

SAMUEL WATSON REAVES, Ph. D.
Professor of Mathematics.

SARDIS ROY HADSELL, A. M.
Professor of the English Language.

GUY YANDALL WILLIAMS, Ph. D.
Professor of Physical Chemistry.

HENRY HIGGINS LANE, Ph. D.
Professor of Zoology.

JEROME DOWD, M. A.
Director of the School of Commerce and Industry, Professor of Sociology and Economics.

*THEODORE HAMPTON BREWER, M. A.
Director of the School of Journalism, Professor of English Literature.

LUCILE DORA, M. A.
Professor of Romance Languages and Literatures.

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*On leave of absence, 1915-16.

Louis Alvin Turley, A. M.
Professor of Histology and Pathology

Monroe Allen Floyd, A. M.
Associate Professor of History.

Daniel Webster Ohern, Ph. D.
Special Lecturer on Oklahoma Geology.

John Henry Voss, M. A.
Associate Professor of German.

Charles Henry Taylor, M. S.
Professor of Geology.

William Peter Haseman, Ph. D.
Professor of Physics.

Errett Rains Newby, B. M., B. A.
Secretary, Registrar.

Henry Hubbard Foster, A. B., LL. B.
Professor of Law.

John Alley. A. B.
Professor of Government.

*Roy Temple House, A. M.
Professor of German.

Gayfree Ellison, B. S., M. D.
Professor of Bacteriology.

Andrew Clarkson Parsons, A. B.
Professor of Secondary Education, High School Inspector.

Warren Waverley Phelan, Ph. D.
Director of the School of Education, Professor of Psychology and Education.

Leonard Blaine Nice, Ph. D.
Professor of Physiology.

Edmund Pendleton Randolph Duval, A. M.
Associate Professor of Mathematics.

William Anton Schmidt, M. A.
Professor of the History and Administration of Education.

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*On leave of absence, second semester, 1915-16.

RICHARD GRAY SOUTAR, B. A.
Professor of Physical Education.

PATRICIO GIMENO, B. A.
Associate Professor of Romance Languages.

HAROLD HARVEY HERBERT, A. B.
Associate Professor of Journalism.

MAURICE GOLDSMITH MEHL, Ph. D.
Associate Professor of Geology.

*ARTHUR BARTO ADAMS, M. A.
Assistant Professor of Economics.

*BURTON FRANK TANNER, B. L.
Assistant Professor of Public Speaking.

*ELIZABETH CHURCH, Ph. D.
Assistant Professor of English.

EARLE SELLERS PORTER, M. A.
Assistant Professor of Chemistry.

ANDREW ROBERT RAMEY, M. A.
Assistant Professor of English.

BENJAMIN GILBERT OWEN.
Assistant Professor of Physical Education and Coach.

HARRY CLINTON GOSSARD, Ph. D.
Assistant Professor of Mathematics.

AUGUST STEITZ, Ph. D.
Assistant Professor of German.

FOWLER DELL BROOKS, M. A.
Assistant Professor of Psychology and Education.

HARRIET JULIA HOPKINS, B. S.
Assistant Professor of Domestic Science.

ISAIAH MARCH RAPP, Ph. D.
Assistant Professor of Physics.

*LAWRENCE NELSON MORGAN, B. A.
Instructor in English.

*KENNETH POTTER MONROE, B. S.
Instructor in Chemistry.

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*On leave of absence, 1915-16.

RACHEL REVELL, Ph. B.
Instructor in Physical Education.

*JOSEPH BRADFIELD THOBURN, B. S.
Instructor in History.

†ALEXANDER WATTS MCCOY, C. E., M. A.
Instructor in Geology.

EDWARD EVERETT DALE, A. M.
Instructor in History.

WILLIAM HARRISON EMIG, Ph. D.
Instructor in Botany.

ADDIE MALOY, B. A.
Instructor in Physics.

EDGAR D. MEACHAM, B. A.
Instructor in Mathematics.

MOLLIE ANNE PETERSON, Ph. B.
Instructor in Domestic Art.

GILBERT HARMER SMITH, B. A., B. D.
Instructor in English.

ROBERT WESLEY BROWN, M. S.
Instructor in Geology.

WALTER STANLEY CAMPBELL, M. A.
Instructor in English.

HOWARD BENJAMIN CROSS, B. A.
Instructor in Zoology.

THOMAS BRUCE ROBB, M. A.
Instructor in Economics.

LUCIEN QUITMAN CAMPBELL, B. A.
Instructor in English and Debating Coach.

MEADE FRIERSON, JR., B. S.
Instructor in English.

‡ARTHUR JAMES WILLIAMS, M. S.
Instructor in Geology.

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*On leave of absence 1915-16.
†Resigned, February 4, 1916.
‡From February 4, 1916.

EVA MARIE ANDERSON, B. A.
Assistant in Public Speaking.

ROSETTA ANGELINE BRIEGEL, B. A.
Assistant in Chemistry.

‡JOHN MOSELEY, B. A.
Assistant in Latin.

STUART A. COURTIS.
Consulting Director of the Department of Measurement, Efficiency, and Standardization.

EVERETTE LEE DEGOLYER, B. A.
Lecturer in Geology.

GERALD STAMPER TEBBE, B. A.
Fellow in Education.

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‡From February 4, 1916.

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is the center of the University of Oklahoma out of which the professional schools have grown and around which they are grouped. A large part of its instruction is foundational for the best work in the professional schools, and there is a growing tendency to require one or more years of general college training for admission to a professional school.

The College of Arts and Sciences affords many of its students an opportunity to test themselves in various fields of scholastic endeavor pending the time when they shall discover the dominant interests of their lives. For many others the college presents subjects or groups of subjects directly related to the student's chosen line of professional endeavor; for example, in teaching, in journalism, in commerce and industry, and in various lines of scientific work.

ADMISSION

The requirements for admission to the College of Arts and Sciences are explained under the head of "Admission."

Deficiencies in Entrance Credits

Five hours will be deducted from the student's credit for each unit deficiency until the deficiency is otherwise satisfied. See "Deficiencies in Required Subjects" and "Deficiencies in Amount of Entrance Credit."

SPECIAL INFORMATION ABOUT ENROLLMENT

In addition to the information about enrollment given under "General Information," students in the College of Arts and Sciences will be governed by the following:

1. Work begun in a subject should ordinarily be carried through the year. This is especially true in courses of an elementary character.

2. Amount of Work: No student in the College of Arts and Sciences may take more than sixteen hours work (exclusive of physical education) nor less than twelve hours work in any semester except as provided below:

a. A student making a grade of A in sixteen hours work in any semester and receiving no mark lower than B minus in that se-

mester may enroll for twenty hours work (including physical education) for his next semester.

b. A student making an average grade of A minus in sixteen hours of work in any semester and receiving no mark lower than B minus in that semester may enroll for eighteen hours work (in addition to physical education) for his next semester.

c. A student who, at the beginning of his senior year, lacks thirty-five or thirty-six hours of having the 124 hours required for graduation, may enroll for eighteen hours the first semester of his senior year, and if he makes passing grades in this semester's work, may enroll for eighteen hours the last semester.

d. Students enrolling for any semester before the grades for the preceding semester are reported should enroll for the normal amount of work except as provided under (c) above. Those entitled to excess hours may change their enrollment accordingly after the grades are reported.

e. A student may take less than twelve hours work only with the approval of the dean.

3. In matters of enrollment the major professor is the adviser of all students from the beginning of the sophomore year; the dean, of unclassified students and freshmen.

4. Students expecting to graduate in the schools of education, commerce and industry, or journalism must declare their intention of entering these schools at the beginning of their sophomore year, and must make application for admission to these schools at the beginning of their junior year.

5. Students expecting to take one of the combined courses must make application for admission at the time indicated below:

Combined course (five years) in Arts and Sciences and Engineering (B. A. and B. S. degrees), at the beginning of sophomore year.

Combined course (six years) in Arts and Sciences and Medicine (B. S. and M. D. degrees), at the beginning of sophomore year. Such students do not need to major.

Combined course (six years) in Arts and Sciences and Law (B. A. and LL. B. degrees), at the beginning of junior year.

6. Students expecting to enter the School of Medicine, who enroll in the College of Arts and Sciences for the pre-medical college work, must at the beginning of their freshman year declare their intention of entering the School of Medicine.

7. Students from other schools who receive credit for ninety hours advanced standing and are unable to choose a major, will be required to select at least two-thirds of the work necessary to earn their degree from courses "for undergraduates and graduates."

EXAMINATIONS

The College of Arts and Sciences requires that an examination be given in each course at the time specified in the regular examination schedule. No student may be excused from the final examination; seniors, however, are excused from taking examinations in the semester in which they complete their work for a degree, in all classes in which they are making a passing grade.

GRADUATION IN LESS THAN FOUR YEARS

It is possible to complete the requirements for graduation by attending the university three years and three Summer Sessions.

The regulations under the above heading, "Amount of Work," make it possible for a good student to be graduated in less than the regular time by taking extra hours.

REQUIREMENTS FOR GRADUATION

To secure the Bachelor of Arts degree from the College of Arts and Sciences the candidate must complete 124 hours of work, together with not less than 174 points, in accordance with the plan hereinafter set forth.

Definition of Hour

Every hour for which credit is given is understood to represent for the average student approximately three hours of work a week through one semester. Thus, in lecture or recitation work, one hour of credit is allowed for the lecture or recitation plus two hours of preparation, reading, or study. Where the time is wholly occupied by drawing, or laboratory, or field work, three hours a week for one semester are expected of the student for each hour that counts toward graduation.

Value of Grades in Points

Each hour's work for which a grade of A or A minus is received shall count as three points; a grade of B or B minus, as two points; a grade of C, as one point; a grade of C minus, as no points.

The 174 points will be reduced, in the case of students entering with advanced standing, in the proportion that the number of hours of advanced standing is to 124. This also applies to all credits earned in the university prior to July 1, 1915.

REGULAR PLAN OF WORK

The completion of the 124 hours usually requires four years. Of these the first or freshman year is spent in general or introductory work, comprising courses in several departments and in widely separated subjects. During the second, third, and fourth, or sophomore,

junior, and senior years, the student may confine his work within certain comparatively narrow limits. The plan of the entire four years' work is known as the "major elective system." It consists of four parts: I, prescribed freshman work; II, major study; III, group electives; and IV, free electives.

I. Prescribed Freshman Work

(a) English 1, 2 ..... 8 hours.
(b) One Natural Science ..... 8 hours.
(Botany 1, 2; or Chemistry 1, 2; or Geology 1, 2; or Physics 1, 2; or Zoology 1, 3.)

Eight hours each from two of the next three subjects (c, d, and e):

(c) One Ancient Language
(d) One Modern Language
(e) Mathematics
} ..... 16 hours.
(f) Government 1, or History 9 or 10 ..... 4 hours.
(g) Physical Education ..... 2 hours.

Exemptions

Students who present a sufficient amount of entrance credit in the subjects listed under (c), (d), and (e) may be relieved wholly or in part from these requirements. The exemptions are as follows:

(c) Four units of Latin will relieve from eight hours ancient language. Three units of Latin will relieve from four hours ancient language.

(d) Two units of one modern language, in addition to the two units of foreign language required for admission, will relieve from eight hours modern language. One unit of one modern language, in addition to the two units of foreign language required for admission, will relieve from four hours modern language.

(e) Three and one-half units of mathematics will relieve from eight hours mathematics. Three units of mathematics will relieve from four hours mathematics.

II. Major and Minor Subjects

At the beginning of his sophomore year each student must choose a major study. The major may be chosen from any department offering sufficient work. The head of the department in which the major lies becomes the student's official adviser throughout the remainder of his course. The student wishing to major in a department must make written application, on a blank provided by the registrar, to the head of the department. This application, when approved by the dean of

the college and the head of the department, must be filed with the registrar. The work in the major study must consist of:

(a) At least twenty hours in addition to prescribed courses, accepted for major credit in the department chosen.

(b) At least twelve hours in a closely related subject within the same group as the major subject.

Students who enter with advanced standing must do not less than eight hours work in their major subject in this institution before being granted a degree. This rule is not to be interpreted to prevent a student who enters with ninety hours credit from being graduated without selecting a major.

Students whose major subject lies in Group I or in Group III may choose journalism as a minor.

The major professor may require a thesis to be written under the following conditions:

At the beginning of his senior year, i. e., at the first enrollment after he has completed ninety hours, the student must file with the registrar a subject for a thesis, approved by his advisory professor, upon some phase of his major work. The finished thesis must be submitted to the professor in charge not later than the first Monday in May, and two copies of the thesis, bound in an acceptable manner and according to the required specifications, shall be filed with the librarian. Four hours credit is given for this thesis.

III. Group Electives

The major student must complete in addition to prescribed courses at least eight hours in one department in each of the two groups that do not contain the major study.

The groups are as follows:

Group I. The Languages: English, Greek, Latin, German, French, Spanish, Italian, public speaking.

Group II. Mathematics and Natural Sciences: Anatomy, bacteriology, botany, chemistry, *domestic science, geology, mathematics, pathology, physics, physiology, zoology.

Group III. The Social Sciences: Economics, education, history, philosophy, government, sociology.

*Domestic Science 1 and 2 are the only courses in that subject that will fulfill the eight-hour requirement in Group II.

IV. Free Electives

In addition to the requirements of prescribed courses, major and minor studies, and group electives, the student shall choose enough other courses to bring the total number of hours up to 124; but not

more than a total of forty-eight hours in any department shall be counted toward a degree.

ADVISERS TO STUDENTS

At the time of his registration each freshman student in the College of Arts and Sciences is assigned to a member of the advisory committee, who is his adviser until his major subject is chosen. The major professor is the adviser during the sophomore, junior, and senior years; the dean, of unclassified students.

The relation of the adviser to the student is, as far as possible, that of a friendly counselor, ready at all times to assist by encouragement, advice, or warning, to the end that the student may be directed along lines of high ideals in scholarship and right living. The adviser receives monthly reports from each of the student's instructors, and in case these reports show diminishing quality of work or excessive absences, the adviser summons the student for consultation. Advisers are glad to co-operate with parents and guardians in any way possible.

Students From Other Colleges and Universities

Students from other schools who receive advanced credits for ninety hours and are unable to choose a major will be under the control of the dean of the college.

ELECTIVES FROM OTHER SCHOOLS IN THE UNIVERSITY

A student may elect and count toward the Bachelor of Arts degree subjects given in any one of the other colleges and schools of the university as follows:

College of Engineering: Not more than twenty hours elected from the following courses: Mechanical Drawing 1, 2, 3; Civil Engineering 1, 2, 3, 53; Mechanics 151, 152, 153, 154, 155; Mechanical Engineering 1, 4; Electrical Engineering 51, 52, 53, 54, 164, 165, 178.

With the consent of the head of the departments concerned, certain work in mechanics, mechanical, electrical and civil engineering, and drawing may be counted in the departments of mathematics and physics.

A student, by judicious selection of his courses, may complete the work for the B. A. degree and the B. S. degree in engineering in five years. Such a student will be under the direction of his major professor and the director of the school in which he takes his engineering degree. He must file with the registrar at the beginning of his sophomore year an application card approved by both deans declaring his intention to take the two degrees.

School of Fine Arts: Courses in the history and theory of

music, the history of art, and Art 1 and 2, the total credit not to exceed twenty-seven hours, of which twenty-one hours may be in music and six hours in art.

School of Law: A student who has ninety-two or more hours credit, at least thirty of which have been earned in this institution, may under certain conditions elect from the subjects offered in the School of Law not to exceed twenty-six hours. A student, by judicious selection of his courses, may complete the work for the B. A. degree and the LL. B. degree in law in six years.

School of Medicine: Students who have completed as many as sixty academic hours in the College of Arts and Sciences, at least thirty of which have been earned in this institution, and who can satisfy the entrance requirements of the School of Medicine may enter the School of Medicine, and on completion of the first two years' work will be recommended for the degree of Bachelor of Science in medicine in the College of Arts and Sciences. A student may thus secure the B. S. degree and the M. D. degree in six years. Subjects given in the School of Medicine will not be counted in making up the sixty hours required in the College of Arts and Sciences.

In addition to satisfying the entrance requirements of the College of Arts and Sciences, the student must complete:

(a) The prescribed freshman work;

(b) The subjects prescribed for admission to the School of Medicine;

(c) And in addition to (a) and (b) must work out sufficient hours within Groups I and III to make a total of not less than sixty academic hours in the College of Arts and Sciences. If the number of hours needed under (c) is eight or less they should all be worked out in one group.

Students taking the combined course in Arts and Sciences and Medicine do not need to major but must apply for admission to the combined course at the beginning of their sophomore year.

The following outline of courses will comply with these requirements:

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
Chemistry 1	4	Chemistry 2	4
†Modern Language	4	†Modern Language	4
Botany 1, or Zoology 1	4	Zoology 2	4
Physical Education	1	Physical Education	1
Total	17	Total	17

†German or French.

Second Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Physics 1	4	Physics 2	4
Modern Language, continued	4	Modern Language, continued	4
*Mathematics or Ancient Language	4	*Mathematics or Ancient Language	4
Philosophy 1 (Psychology)	4	Gov't 1 or History 9 or 10	4
Physical Education	1	Physical Education	1
Total	17	Total	17

*Students offering four units of Latin, or three and one-half units of mathematics for admission should substitute Philosophy 103 and 105.

FIELD WORK

At the discretion of the head of the department, credit not to exceed one hour for each two weeks spent in the field may be given in the departments of botany, geology, and zoology, provided the student enrolls for work which shall be outlined and carried on under suitable departmental direction.

SCHOOLS

In addition to the general elective courses, the College of Arts and Sciences includes three schools, namely, the School of Commerce and Industry, the School of Education, and the School of Journalism. For the purpose of enrollment the major professor and the director of the school shall be joint advisers. An outline of the work done in each of these schools is given below.

SCHOOL OF COMMERCE AND INDUSTRY

The School of Commerce and Industry is organized within the College of Arts and Sciences. Its purpose is to train students for a variety of commercial and industrial vocations. The courses offered aim to give a practical knowledge of business correspondence, business forms and documents, accounting (applied to private and governmental affairs), auditing, salesmanship, advertising, credits and collections, organization and management of business, partnerships and corporations, the principles and practices of banking and insurance, the value of the mineral and vegetable resources of the world, the processes of developing them, and the methods of marketing, manufacturing and transporting commercial products.

Admission: Students who wish to enter the School of Commerce and Industry must have completed two years' work in the College of Arts and Sciences. The requirements for admission to the College of Arts and Sciences consist of fifteen units of high school work, includ-

ing three of English, two of a foreign language, one of algebra, one of geometry, one of history, one of science, and six elective units. For further information see "Admission" in the general catalogue. The two years' work in the College of Arts and Sciences, which is required of students expecting to take the commerce and industry course, should include the prescribed courses, a major subject, a minor subject, and the group electives as specified under the College of Arts and Sciences. The major subject, the minor subject, and the group electives should be commenced in the sophomore year but may be completed after admission to the School of Commerce and Industry. The major subject should be economics.

Applicants twenty-one years of age or over, not candidates for a degree, may be admitted as unclassified students to such work as they are prepared to take.

The following outline of courses is recommended for the first two years:

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
Chemistry 1	4	Chemistry 2	4
*Mathematics 5 or Ancient Language	4	*Mathematics 9 or Ancient Language	4
Government 1	4	History 10	4
Physical Education	1	Physical Education	1
Total	17	Total	17

Second Year

Economics 1	4	Economics 2	2
Sociology 1	4	Economics 3	2
Philosophy 1 (Gen. Psych.)	4	Sociology 2	4
Modern Language	4	Modern Language	4
		Geology 3 (Economic Geology)	4
Physical Education	1	Physical Education	1
Total	17	Total	17

*Students allowed exemption in mathematics or ancient language should substitute modern language.

Requirements for Graduation: Candidates for graduation in the School of Commerce and Industry will be required to complete the major and the minor subjects previously selected, to fulfill the group requirements, to take such courses in economics, government and sociology as the Director of the School of Commerce and Industry may

approve, and in all other respects to comply with the requirements for graduation from the College of Arts and Sciences.

A certificate in commerce and industry, in addition to the degree, will be awarded at the time of graduation to those who complete these requirements.

These requirements are met by the following outline of subjects:

Third Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Econ. 4 (Money and Banking)	4	Econ. 6 (Labor Problems)	4
Econ. 10 (Business Law)	4	Econ. 102 (Insurance)	2
Econ. 8 (Business Adm.)	2	Econ. 9 (Business Adm.)	2
Econ. 104 (Rural Economics)	2	Econ. 105 (S. Amer. Trade)	2
Modern Language	4	Gov't 105 (Municipal Gov't)	2
		Modern Language	4
Total	16	Total	16

Fourth Year

Soc. 102 (Social Evolution)	4	Econ. 5 (Public Finance)	4
Econ. 7 (Econ. Geography)	2	Econ. 101 (Transportation)	2
Econ. 100 (Industrial Comb.)	4	Econ. 103 (Statistics)	2
Econ. 200 (Econ. Seminary)	2	Econ. 201 (Econ. Seminary)	2
Botany 5 (General Forestry)	2	Botany 6 (Industrial Botany)	2
Journ. 50 (Advertising)	2	Journ. 51 (Advertising)	2
		Elective	2
Total	16	Total	16

Contact with Prominent Business Men: In addition to the class work, students of the School of Commerce and Industry have many opportunities to gain valuable information through the observation of industrial enterprises and through contact with successful business men. The students visit the leading manufacturing and mercantile establishments of Norman and Oklahoma City, and from time to time prominent business men of the state are invited to lecture to the school.

SCHOOL OF EDUCATION

The School of Education is organized within the College of Arts and Sciences. Its purpose is to select and organize work done in the various departments of the university in such a way as to be most helpful to prospective teachers. Its specific aims are: first, to prepare high school teachers thoroughly in two or more academic subjects and give them the professional training necessary to make their teaching effective; second, to prepare teachers of education and psychology for normal schools and colleges; and third, to present such

courses in theory, history and administration of education as will be valuable to principals, superintendents, and other educational administrative officers.

Admission: Applicants for admission to the School of Education must have at least two years' work in the College of Arts and Sciences This work should include the prescribed courses, a major subject, a minor subject, and the group electives as specified under the College of Arts and Sciences. The major subject, the minor subject, and the group electives should be commenced in the sophomore year but may be completed after admission to the School of Education. General psychology and educational psychology should be included in the electives of the sophomore year.

Applicants twenty-one years of age or over, not candidates for a degree, may be admitted as unclassified students to such work as they are prepared to take.

The following outline of courses is recommended for the first two years:

First Year

First Semester			Second Semester		
Course		Hours	Course		Hours
English 1		4	English 2		4
Natural Science (Botany 1, or Chemistry 1, or Geology 1, or Physics 1, or Zoology 1.)		4	Natural Science, continued (Botany 2, or Chemistry 2, or Geology 2, or Physics 2, or Zoology 3.)		4
*Two courses out of the three groups following:			*Continuation of two of the three groups following:		
Ancient Languages (Latin, or Greek)	4		Ancient Languages (Latin, or Greek)	4	
Modern Languages (French, or German, or Spanish, or Italian)	4	8	Modern Languages (French, or German, or Spanish, or Italian)	4	8
Mathematics	4		Mathematics	4	
Physical Education		1	Physical Education		1
	Total	17		Total	17

Second Year

Gov't 1, or History 9 or 10	4	Free Electives	4
Major Subject	4	Major Subject	4
Group Electives	4	Group Electives	4
Philosophy 1, or 51	4	Education 2	4
Physical Education	1	Physical Education	1
Total	17	Total	17

It is recommended that Zoology 1 and Sociology 1 be included among the electives.

*For exemptions see "Prescribed Work, College of Arts and Sciences."

Requirements for Graduation: Candidates for a degree in the School of Education will be required to complete the major and the minor subjects previously selected, to fulfill the group requirements, to take at least sixteen hours in education and psychology in addition to general psychology and educational psychology, and in all other respects to comply with the requirements for graduation from the College of Arts and Sciences.

The professional work must include the methods of teaching in the student's major and minor subjects, or practice teaching, and such other courses in education and psychology as the Director of the School of Education may approve. These requirements are met by the following outline of subjects:

Third Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Major Subject	4	Major Subject	4
Minor Subject	4	Minor Subject	4
Group Electives	4	Group Electives	4
Education 105, 106, or 121	4	Education 104 or 108 or 20	4
Total	16	Total	16

Fourth Year

Course	Hours	Course	Hours
Major Subject	4	Minor Subject	4
Free Electives	8	Free Electives	8
Education 101 or 102	2	Methods in Major Subject or Practice Teaching	2
Teacher's Course, or Practice Teaching	2	Education 103 or 110	2
Total	16	Total	16

A student in the School of Education whose major subject is in Group I or in Group II will be allowed to fulfill the requirements of Group III with Sociology 1, (4 hours) and Philosophy 3, Logic, (4 hours).

Students entering the School of Education with advanced standing must complete at least eight hours in education and psychology in residence.

Students preparing to become teachers of education and psychology in normal schools and colleges must complete a major and the equivalent of two minors, one of which may be in some department other than education or psychology.

Practice Teaching

Arrangements have been made for observation, and for practice teaching in the city schools. Candidates for the teacher's life certificate are required, during the senior year, to teach five hours per week for one semester. In the case of candidates who give evidence of successful teaching experience, this requirement may be waived at the discretion of the director of practice teaching. No credit is given, however, for such previous teaching experience.

Educational Investigation and Experimentation

The Department of Measurement, Efficiency, and Standardization is meeting the growing demand for measurement of school children. The work of the department is fourfold: first, a determination, in such subjects as arithmetic, handwriting, spelling, English composition, and other branches of the elementary curriculum, of the existing conditions throughout the state, and of the improvement resulting to pupils after a year's work under scientific measurement; second, the collection and tabulation of these results for the general good of the superintendents and the teachers of the state; third, the planning and supervising of experimental work designed to improve the efficiency of existing methods; and fourth, the laboratory examination and study of the special difficulties of sub-normal and supernormal children.

Certificates for Teachers

Teachers' Certificates for Graduates: The regulations of the State Board of Education provide that graduates of the School of Education who have complied with the special requirements enumerated above and who are recommended by the faculty of the School of Education as possessing other qualifications which fit them for teaching, will be granted a teacher's life certificate valid in the public schools of the state.

This certificate may also be granted to persons who receive higher degrees from the university, provided that in their undergraduate and graduate work combined they have complied with the professional and academic requirements enumerated above and have done at least nine hours in education in this university.

Teachers' Certificates for Undergraduates: The State Board of Education has provided that persons who have finished the first two years' work of the university and have had regular courses in psychology and education, may be granted a certificate good for two years, of equal standing with a first grade county certificate, after such certificate has been registered with the county superintendent of the county in which the teacher desires to teach. Such

certificate shall not be subject to renewal. Such certificate may also, at the option of the board of examiners in any independent pistrict, be valid for service in said independent district after it has been registered with the city superintendent.

Examinations for First, Second, and Third Grade State Certificates: An examination of candidates for any one of the various grades of state certificates is held at the university the latter part of May.

Recommendation of Teachers

The Committee on Recommendations collects data concerning graduates and students who desire to teach in Oklahoma for the purpose of assisting superintendents and school boards as far as possible in the proper selection of teachers.

Those interested in securing teachers or positions should address the Committee on Recommendations, University of Oklahoma, Norman, Oklahoma.

SCHOOL OF JOURNALISM

The School of Journalism is organized within the College of Arts and Sciences. Its purpose is to prepare students for the profession of journalism and to permit them, at the same time, to obtain a college degree. The work in journalism is not separate and independent, but it is based upon and accompanied by the study of fundamental and allied subjects.

Admission: Students who wish to enter the School of Journalism must have completed two years' work in the College of Arts and Sciences. This work should include the prescribed courses, a major subject, a minor subject, and the group electives as specified under the College of Arts and Sciences. The major subject, the minor subject, and the group electives should be commenced in the sophomore year, but may be completed after admission to the School of Journalism. Journalism 1 and 2 should be included in the electives of the sophomore year.

Journalism may not be elected as a major subject, but may be counted as the minor subject by students who major in Group I or in Group III.

Applicants twenty-one years of age or over, not candidates for a degree, may be admitted as unclassified students for such work as they are prepared to take.

Requirements for Graduation: Candidates for graduation in the School of Journalism will be required to complete the major and the minor subjects previously selected, to fulfill the group requirements,

to take sixteen hours in journalism in addition to Journalism 1 and 2, and in all other respects to comply with the requirements for graduation from the College of Arts and Sciences.

By this arrangement the student will begin his professional courses in journalism in the sophomore year, and will complete twenty-four hours of journalism in the period of three years. It is recommended that the free electives be selected from the social science group (economics, education, history, philosophy, government, sociology), or from the language group (English, Greek, Latin, German, French, Italian, Spanish, public speaking). In addition to developing his powers of composition and familiarizing himself with the technique of journalism, the student should secure a broad and thorough understanding of social, industrial, and historical conditions, and acquire a knowledge of the literature of his own language and that of other languages.

A certificate in journalism, in addition to the degree, will be awarded at the time of graduation to those who complete these requirements.

Below may be found an outline of the work recommended to students who desire to plan their whole course with a view to the pursuit of journalism as a profession.

First Year

First Semester			Second Semester		
Course		Hours	Course		Hours
English 1		4	English 2		4
Natural Science, (Botany 1, or Chemistry 1, or Geology 1, or Physics 1, or Zoology 1.)		4	Natural Science, continued (Botany 2, or Chemistry 2, or Geology 2, or Physics 2, or Zoology 3.)		4
*Two courses out of the three groups following:			*Two courses out of the three groups following:		
Ancient Languages (Latin, or Greek.)	4	8	Ancient Languages (Latin, or Greek.)	4	8
Modern Languages (French, or German, or Spanish, or Italian.)	4		Modern Languages (French, or German, or Spanish, or Italian)	4	
Mathematics	4		Mathematics	4	
Physical Education		1	Physical Education		1
Total		17	Total		17

*For exemptions see "Prescribed Work, College of Arts and Sciences."

Second Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Gov't 1, or History 9 or 10	4	Free Electives	4
Major Subject	4	Major Subject	4
Group Electives	4	Group Electives	4
Journalism 1	4	Journalism 2	4
Physical Education	1	Physical Education	1
Total	17	Total	17

Third Year

Major Subject	4	Major Subject	4
Minor Subject	4	Minor Subject	4
Group Electives	4	Group Electives	4
Journalism	4	Journalism	4
Total	16	Total	16

Fourth Year

Major Subject	4	Major Subject	4
Free Electives	4	Free Electives	8
Journalism	4	Journalism	4
Minor Subject	4		
Total	16	Total	16

Practice in Journalism: Students in journalism are offered opportunities to carry on independent or supervised work of a professional charter. The University Oklahoman, the student newspaper published twice a week, is conducted by a staff made up largely of students in journalism, who thus obtain practice in reporting, editing, and newspaper management. The University of Oklahoma Magazine, now published under the joint direction of the School of Journalism and the Publication Board, gives opportunity for writing articles and reports adapted to monthly periodicals. The Sooner, the annual published by the junior class, affords additional opportunity, through a competitive method of staff selection, for valuable editorial and business experience.

The School of Journalism conducts a bureau for the dissemination of news and information about the university, and interested students are given opportunity to act as correspondents for newspapers in their home communities and for publications both within and outside the state. Most of the important newspapers in Oklahoma and some in adjacent states maintain student correspondents at the university, and in this manner a number of students each year are enabled to obtain journalistic practice, with remuneration of a substantial character.

DESCRIPTION OF COURSES

NOTE—First semester courses are marked a. Second semester courses are marked b. Courses with no letter attached are given both semesters. Courses marked s are given only in the Summer Session.

The person first named under each department is the head of that department.

ASTRONOMY

Professor Reaves, Assistant Professor Gossard

Primarily for Undergraduates

Astronomy 3b. Descriptive Astronomy: A general course in the elements of astronomy. Lectures (some illustrated) and quizzes covering the leading facts and theories of general astronomy. Assistant Professor Gossard. 2 hours.

Astronomy 4b. Practical Astronomy: The elements of spherical astronomy with applications. Theory and use of sextant, telescope, and spectroscope. Determination of time, latitude, longitude, and orbital elements of planets and comets. Prerequisites, Mathematics 6 or 9 and enrollment in Astronomy 3. Assistant Professor Gossard. 2 hours.

BACTERIOLOGY

Professor Ellison

The work in this department is designed to meet four requirements; viz., general culture, a preparation for research, a more detailed knowledge of certain important organisms than is given in the biological courses, and a training in the essentials for the practice of medicine. The courses are open to all students of college rank on the approval of the instructor in charge.

Bacteriology 1 is required of students of medicine.

Bacteriology 1, 2, and 3 may not be counted as major work.

Courses in pathology may be combined with bacteriology for major work.

Primarily for Undergraduates

Bacteriology 1a. General Bacteriology: This course includes a detailed study of the more important forms of pathogenic and non-pathogenic organisms, with methods of their isolation from body fluids,

water, foods, etc., and their relation to human life. Lectures, laboratory, assigned readings, and reports. Required of medical students. Lectures and laboratory. Deposit required. 4 hours.

Bacteriology 2a. Domestic Bacteriology: A study of the principles of bacteriology; the relation of micro-organisms to domestic science; the relation of micro-organisms to disease, and the means of dissemination of disease-producing organisms. This course is designed especially for students in domestic science, and for teachers. Lectures, demonstrations, and assigned readings. 4 hours.

Bacteriology 3a. Sanitary Bacteriology: A study of the fundamental bacterial activity; the analysis of water, soil, and milk, the testing of disinfectants; a study of septic tanks and the problems of public sanitation. This course is designed especially for students in engineering. Laboratory, conferences, and lectures. Deposit required. 4 hours.

Bacteriology 5b. Pharmaceutical Bacteriology: A study of the fundamental principles of bacteriology, the relation of bacteria to disease, the study of the specific micro-organisms of disease; immunity and serum therapy; the preparation and standardization of bacterines, serums, and antitoxins; and disinfectants. This course is designed especially for students of pharmacy. Lectures, assigned readings, and demonstrations. 2 hours.

Bacteriology 6b. Bedside Laboratory Methods: A course designed to familiarize the student with the more accurate use of apparatus and reagents used in the clinical laboratory. Prerequisites, Bacteriology 1 and Chemistry 124. Deposit required. 2 hours.

For Undergraduates and Graduates

Bacteriology 101b. State and Municipal Laboratory Methods: Laboratory course with lectures on the methods of water, soil, food, air, body-fluids, and sewage examinations; the standardization of disinfectants; laboratory diagnosis. Prerequisite, Bacteriology 1. Deposit required. 4 hours.

Bacteriology 102a. Research Bacteriology: The student will pursue a definite line of research on a subject of bacteriology selected after a consultation with the instructor in charge. This course is open to all students of the university who have the necessary prerequisites, and is designed especially for those who take major work in bacteriology. Laboratory, conferences, assigned readings, and reports. Deposit required. Prerequisite, Bacteriology 1 and 101. Professor Ellison. 4 hours.

Bacteriology 103b. Research Bacteriology: A continuation of Bacteriology 102. Deposit required. Professor Ellison. 4 hours.

BOTANY

Professor Van Vleet, Dr. Emig

Botany 1 and Botany 2 are introductory courses and satisfy the freshman science requirement. Work may begin with either course. Botany 1 with Zoology 2 satisfies the biology requirement for admission to the School of Medicine.

Bacteriology 1, General Bacteriology, may count towards a major in botany.

Courses in botany for which no credit is given in Arts and Sciences are as follows:

Botany 3 and 4, in the School of Pharmacy.

Primarily for Undergraduates

Botany 1a. General Botany: Instruction in this course is divided into two periods. The first period extends from the beginning of the semester to the middle of November. The second period includes the remainder of the semester.

PERIOD 1. A general survey of the properties and activities of protoplasm, and of the life processes of plants, including photosynthesis, respiration, transpiration, absorption, conduction, digestion, nutrition, and growth. Three recitations and three hours laboratory.

PERIOD 2. A study of representative forms of thallophytes, bryophytes, and pteridophytes; special attention is given to methods of reproduction, the evolution of structure and function, life histories of the forms studied, with a comparative study of the groups. Two recitations and six hours laboratory. Fee, $1.00. Professor Van Vleet, Dr. Emig. 4 hours.

Botany 2b. General Botany: A general review of the spermatophytes. Instruction in this course is divided into two periods. The first period extends from the beginning of the semester to the first of April. The second period includes the remainder of the semester.

PERIOD 1. General morphology of the spermatophytes. Special attention is given to reproduction and to the organization and structure of the plant members. Three recitations and three hours laboratory.

PERIOD 2. Ecology, and classification of the local angiosperm flora. In ecology, special attention is given to pollination and seed dispersal, factors of environment, plant formations, and laws of plant migration. In the classification of the angiosperms representative families are studied with drill in the use of the plant keys in the determination of species. Lectures, laboratory, and field excursions. Fee, $1.00. Professor Van Vleet, Dr. Emig. 4 hours.

Botany 5a. General Forestry: A general presentation of the history, objects, methods, and economic importance of forestry. This

course is designed especially for students of political economy and others who wish a general knowledge of the subject. Lectures and assigned readings. Open to all students of college rank except freshmen. Professor Van Vleet. 2 hours.

Botany 6b. Industrial Botany: A study of the origin, cultivation, and distribution of plants yielding products of economic value, the nature and use of these products, and the methods by which they are obtained from the plants; especially valuable to students of political economy. Open to juniors and seniors, and to others who have had Botany 1 or 2. Botany 6 may by special permission be counted as graduate work by those who have completed Botany 1 and 2. Professor Van Vleet. 2 hours.

Botany 7b. Household Botany: The fundamental principles of plant growth and habits, considered with special reference to their application to plants in their relation to the home. The course will include a brief review of vegetable foods and fibers. Special attention will be given, however, to the description, classification, propagation and culture of ornamental plants, and to the general principles of ornamental planting. No prerequisite in botany required. Professor Van Vleet. 2 hours.

Botany 8a. Landscape Gardening: This course deals with landscape principles as they apply especially to civic improvement. A study will be made of plans for street planting, and the ornamentation of school grounds, city parks, and home grounds. Special attention will be given to the varieties of trees, shrubs, and other perennials suitable for such planting. Should be preceded by Botany 7, or a course in general botany. Professor Van Vleet 2 hours.

For Undergraduates and Graduates

Botany 101a. Physiology and Ecology: A study of the principal physiological processes; viz., photosynthesis, respiration, transpiration, absorption, conduction, digestion, assimilation, nutrition, and growth, pollination, fertilization, reproduction, and seed distribution; response to environment; and the origin of new forms by selection, mutation, hybridization and adaptation; grouping, invasion, succession, zonation. Open to students who have completed Botany 1 and 2. Three lectures and four hours laboratory or field work. Fee $1.00. Professor Van Vleet. 4 hours.

Botany 102b. Systematic Botany: A study of the development and genetic relationships of angiosperms. Opportunity is afforded students to become proficient in the determination of species and types. Lectures, laboratory, and field work. Open to students who have completed Botany 1 and 2. Fee, $2.50. Professor Van Vleet. 4 hours.

Botany 103a. Dendrology: A study of the structure and characteristics of forest trees. Special attention is given to the native trees of Oklahoma. Lectures, laboratory, and field work. Open to students who have completed Botany 1 and 2. Professor Van Vleet. 2 hours.

Botany 104a. Histology: Instruction in the modern methods used in the collection and preservation of class material in bulk. A study of the principles of fixing and staining and the various other processes of microtechnique necessary in the preparation of microscopical slides. Open to students who have completed Botany 1 and 2 Two lectures and six hours laboratory. Deposit required. Dr. Emig. 4 hours.

Botany 105b. Cytology and Embryology: The application of special histological methods to a study of nuclear and cell division from preparations made by the student. Open to students who have completed Botany 1, 2, and 104. Two lectures and six hours laboratory work. Deposit required. Dr. Emig. 4 hours.

Botany 106a. Morphology and Taxonomy of the Bryophytes: A study of typical mosses and liverworts. Field trips and the collection of material. The lectures will deal with the evolution, relationships, morphology, and classification of this group. Open to students who have completed Botany 1 and 2. One lecture and three hours laboratory work. Dr. Emig. 2 hours.

Botany 107b. Morphology and Taxonomy of the Fungi: A general course covering the more important types of fungi. Field trips and the collection of material. Open to students who have completed Botany 1 and 2. One lecture and three hours laboratory work. Dr. Emig. 2 hours.

Education 136a. Teacher's Course in Botany: Plant studies and methods. Intended primarily for teachers of botany in Oklahoma high schools. Discussions and illustrations of methods of teaching botany, directions for laboratory equipment, the collection, and preservation of material for class use. The aim is to present the subjects of nature study and botany as they should be taught in the public schools. Open to students who have completed Botany 1 and 2. Professor Van Vleet. 2 hours.

BUSINESS

Professor Newby

Business 1. Office Methods: Principles of organization and management of a business office, based upon the practice of successful business men. Employees, equipment, furniture and supplies of the modern office, business letter writing, filing correspondence, follow-up systems, use of card systems, sales records, stock records, perpetual in-

ventory systems, sources of credit information, collections, synthetic records and reports, time-saving methods, and other subjects will be treated. There will be some practice in business letter writing. Ability to operate a typewriter ir a desirable antecedent to this course.

2 hours.

CHEMISTRY

Professor DeBarr, Professor Williams, Assistant Professor Porter, Mr. Monroe, Miss Briegel

The courses in chemistry are planned to give the student a through knowledge and understanding of the fundamental facts and theories of the science, so that he may be well prepared for teaching, for commerical work, or for original research. Chemistry 1, 2, 3, 4, and 8 are general culture courses. Courses 1 and 2, or 3 and 4 will fulfill the freshman science requirement; courses 1 and 4 will fulfill this requirement for domestic science students.

Students who receive one unit entrance credit in chemistry should omit Chemistry 1 and 2, and should take Chemistry 3. Chemistry 1, 2, and 3 may not be counted as major work.

The following outline of work is suggested and strongly recommended for major students:

Chemistry 1 and 2 (or 3), 4, 5, 8, 102, 121, 122 (or 123 and 127 instead of 122), 151, and 152.

Physics 1 and 2, or 51 and 52, and six to eight additional hours.

Mathematics 5, 9, 14, 117, and 118.

German 1, 2, 9, and 10.

Such other prescribed and elective subjects as will fulfill all requirements for graduation.

The major student who expects to make high school teaching his profession is advised to take the courses outlined above, substituting Education 146 for Mathematics 118, and also to take such courses in education as are required to obtain the teacher's life certificate.

Courses in chemistry for which no Arts and Science credit is given are as follows:

Chemistry 21, in the School of Medicine.

Chemistry 6 and 10, in the School of Pharmacy.

Chemistry 7 and 52, in the College of Engineering.

Primarily for Undergraduates

Chemistry 1. General Chemistry; Two lectures and two laboratory periods of three hours each per week. Deposit required. Professor DeBarr and Miss Briegel 4 hours.

Chemistry 2. General Chemistry: A continuation of Chemistry 1. Two lectures and two laboratory periods of three hours each

per week. Prerequisite, Chemistry 1. Deposit required. Professor DeBarr and Miss Briegel 4 hours.

Chemistry 3a. General Chemistry: This course is planned for those students who have had one year of high school chemistry. Two lectures and two laboratory periods of three hours each per week. Prerequisite, one entrance credit in chemistry. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 4. Qualitative Analysis: One lecture and three laboratory periods of three hours each per week, or four laboratory periods of three hours each per week for chemistry majors. Chemistry majors are required to take Chemistry 8 in connection with this course. Other students may take Chemistry 8 in connection with Chemistry 4 under the same conditions as major students. Prerequisites, Chemistry 1 and 2, or 3. Deposit required. Professor Williams. 4 hours.

Chemistry 5. Quantitative Analysis: Volumetric and gravimetric estimations. Lectures and laboratory. Prerequisite, Chemistry 4. Deposit required. Miss Briegel. 4 hours.

Chemistry 8. The Theory of Qualitative Analysis; Lectures and quizzes. This course is required of majors in chemistry and is to be taken with Chemistry 4. It may be elected by other students. All students in Chemistry 4 will find it profitable to take Chemistry 8. Prerequisites, Chemistry 1 and 2, or 3. Professor Williams. 2 hours.

Chemistry 51a. Electro-Chemistry: This course takes up the elements of physical chemistry. Theory of electrolytic dissociation, migration of ions, conductivity of solutions, electromotive force, electrolysis, and some of the applications of electro-chemistry. Prerequisites, Chemistry 7, Physics 52, and Mathematics 117. Lectures and recitations and one laboratory period of three hours. Deposit required. Professor Williams. 4 hours.

Chemistry 61a. Household Chemistry: The study of foods as to calorific and food values, giving special attention to cereals vegetables, meat, milk. etc. Nutritive value of carbo-hydrates, albumins, fats and oils, and their values from the standpoint of the number of calories each contains; computing food values, and determining balanced rations with mixed foods. This course is for women only. Professor DeBarr. 2 hours.

Chemistry 62b. Household Chemistry: A continuation of Chemistry 61. The study of textiles, dyes, laundering, soaps, recipes for cleaning cotton and woolen goods, removing stains from cloth, etc; cleaning glass, china, kitchen utensils, etc.; cleaning leather goods; floor preparations, and like compounds; disinfectants, antiseptics, etc. This course is for women only. Professor DeBarr. 2 hours.

For Undergraduates and Graduates

Chemistry 101a. Advanced Qualitative Chemistry: Continuation of Chemistry 4. Deposit required. Professor Williams. 4 hours.

Chemistry 102b. Advanced Quantitative Analysis: Continuation of Chemistry 5. Deposit required. Miss Briegel. 4 hours.

Chemistry 103a. Inorganic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4. Deposit required. Assistant Professor Porter. 2 hours.

Chemistry 104a. Assaying: This course deals with the estimation of iron, lead, copper, silver, zinc, etc., by the wet way, and of gold and silver by the use of fluxes and other reagents. Prerequisite, Chemistry 5. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 105b. Water Analysis: A study of sanitary, sewage, and mineral waters. Prerequisite, Chemistry 5. Deposit required. Asststant Professor Porter. 4 hours.

Chemistry 106b. Iron, Steel, and Coal Analysis: A study of iron, steel, and coal used in commerce and for domestic purposes. Prerequisite, Chemistry 5. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 107a. Applied Quantitative Chemistry: This course deals with the mineral products of Oklahoma. Lectures and recitations with laboratory. Prerequisite, Chemistry 5. Deposit required. Assistant Professor Porter. 5 hours.

Chemistry 108b. Applied Quantitative Chemistry: Prerequisite, Chemistry 5 and 107. Deposit required. Assistant Professor Porter. 5 hours.

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisites, Chemistry 5 and enrollment in 127. Assistant Professor Porter. 4 hours.

Chemistry 122b. Organic Analysis: Analysis of alkaloids and organic acids. Examination of fat and oils. Prerequisite, Chemistry 121. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 123b. Organic Preparations: Laboratory with lectures. Prerequisites, Chemistry 4, 121, and German 2. Deposit required. Assistant Professor Porter. 2 hours.

Chemistry 124b. Physiological Chemistry: Physiological analysis. Lectures and laboratory. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 5 hours.

Chemistry 125b. Toxicology: A study of poisons. Lectures and laboratory. This course embraces a study of the symptoms, postmortem appearances, antidotes attendant upon poisoning, and the re-

covery of the poisons from the various organs of the body. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 2 hours.

Chemistry 126a. Chemistry and Composition of Food Products: A study of food-stuffs and their adulteration. Lectures, recitations, and laboratory. Prerequisite, Chemistry 121. A student may take this course more than once and receive credit each time, provided the work is not duplicated. Deposit required. Professor DeBarr. 5 hours.

Chemistry 127a. Elementary Organic Preparations: Six hours laboratory work per week. This course is arranged to accompany Chemistry 121. Required of all students of Chemistry 121, except those taking a prescribed course. Prerequisite, enrollment in Chemistry 121. Deposit required. Assistant Professor Porter. 2 hours.

Chemistry 151a. Elementary Physical Chemistry: Lectures and recitations. This course deals with such topics as the gas laws, kinetic theory, phase rule, theory of electrolytic dissociation, etc. This course should be taken with or followed by Chemistry 152. Prerequisites, Chemistry 4, 5, and one year of college physics. Professor Williams. 4 hours.

Chemistry 152. Elementary Physico-Chemical Measurements: A laboratory course that must be taken with or after Chemistry 151. Molecular weight determinations by vapor density, freezing and boiling point methods, study of solutions, solubility, conductivity, transport numbers, etc. Deposit required. Professor Williams. 4 hours.

Chemistry 153. Journal Course: Students in this course are required to read certain assignments in the current chemical journals, to make reports covering certain phases of present-day chemical research, and write a two-thousand-word report on some live chemical topic. Open to students of chemistry with junior or higher standing. Professor DeBarr. 2 hours.

Chemistry 154b. The History of Chemistry: Lectures, recitations and collateral reading. (Given in alternate years. Given in 1917-18.) Open to students of chemistry with junior or higher standing. Professor DeBarr. 2 hours.

Chemistry 155b. Advanced Electro-Chemistry: Two lectures and six hours of laboratory work per week. Prerequisites, Chemistry 151, 152 and Mathematics 117. Deposit required. Professor Williams. 4 hours.

Additional Graduate Courses in Chemistry

Chemistry 210a. Advanced Organic Chemistry: Lectures and collateral reading. Prerequisites, Chemistry 123, Chemistry 152, and a reading knowledge of German. Open to under-graduates only by consent of the head of the department. Assistant Professor Porter. 2 hours.

Chemistry 211b. Advanced Organic Chemistry: A continuation of Chemistry 210. Prerequisite, Chemistry 210. Assistant Professor Porter. 2 hours.

Chemistry 212. Advanced Organic Chemistry; Laboratory. Prerequisites, Chemistry 123 and a reading knowledge of German. Open to under-graduates only by consent of the head of the department. Deposit required. Assistant Professor Porter. 2 hours.

Chemistry 220a. Advanced Physical Chemistry: Lectures and collateral reading. Prerequisites, Chemistry 152, Physics 1 and 2, Mathematics 118, and a reading knowledge of German. Open to under-graduates only by consent of the head of the department. Professor Williams. 2 hours.

Chemistry 221b. Advanced Physical Chemistry: Laboratory. Prerequisite, enrollment in Chemistry 220. Deposit required. Professor Williams. 2 hours.

Chemistry 230a. Advanced Physiological Chemistry: Lectures and collateral reading. Prerequisites, Chemistry 121, 124, 127, Physiology 6 and 7, and a reading knowledge of German. Open to under-graduates only by consent of the head of the department. Professor DeBarr. 2 hours.

Chemistry 231b. Advanced Physiological Chemistry: A continuation of Chemistry 230. Prerequisite, Chemistry 230. Professor DeBarr. 2 hours.

Research: Students who enroll in one of the following research courses: Chemistry 250, 251, or 252 must also enroll in the courses, primarily for graduates, that will be of the greatest aid in the solution of the research problem. For example, if a student should select research in organic chemistry he should take Chemistry 210, 211, and 212, and such other courses as are necessary to complete the major. The credit in research is variable, depending upon the quality and amount of work done. In no case will the credit exceed eight hours in any one course.

Chemistry 250. Research in Organic and in Physiological Chemistry: Deposit required. Open to under-graduates only by consent of the head of the department. Professor DeBarr. Credit varies.

Chemistry 251. Research in Analytical and in Physical Chemistry: Deposit required. Open to under-graduates only by consent of the head of the department. Professor Williams. Credit varies.

Chemistry 252. Research in Organic and in Analytical Chemistry: Deposit required. Open to under-graduates only by consent of the head of the department. Assistant Professor Porter. Credit varies.

Not open to students who offer drawing for admission. Six periods per week. 2 hours.

Art 21. Theory of Esthetic Expression: A study of line, spaces, light-and-dark, proportion, and color, and the principles underlying the pleasing arrangement of these elements with reference to decorative art. Prerequisite, admission credit in drawing or Art 20. 2 hours.

Art 22b. Textiles: A study of the different materials used in costume and in home decoration to determine the important utilitarian and artistic qualities that affect the particular use of each. This course also includes a brief study of the manufacture and identification of the different materials. 2 hours.

Art 23a. Home Architecture: The evolution of the house; homes of primitive people; situation, surroundings, and construction of the house: skeleton plans; general study of the home from the artistic point of view. Prerequisite, admission credit in drawing or Art 20. 2 hours.

Art 24b. Elementary Design: A course including a discussion of and studio practice in the application of the principles of design in relation to home arts. Prerequisite, Art 21. 2 hours.

Art 25a. Costume Design: This course considers costume design from the standpoint of the controlling factors; principles of design and color, personality of the individual, purpose, and materials. Prerequisite, Art 21. (Art 22 recommended.) 2 hours.

Art 26b. Costume Design: Continuation of Art 25, as applied particularly to millinery, children's clothes, and underwear. Prerequisite, Art 25. 2 hours.

Art 27a. Home Decoration: Application of esthetic principles to home decoration; special consideration of walls, floors, and windows. Prerequisite, Art 21. (Art 25 recommended.) 2 hours.

Art 28b. Home Decoration: Continuation of Art 27. Special consideration of selection and arrangement of furniture, pictures, plants, cut flowers, silverware, dishes, table linen, and table decoration. Prerequisite, Art 27. 2 hours.

DOMESTIC SCIENCE

Assistant Professor Hopkins

Students selecting domestic science as a major may select domestic art as a minor.

Students who major in domestic science may select Chemistry 1 and 4 instead of Chemistry 1 and 2 to fulfil the freshman science requirement.

Domestic Science 1 and 2 will satisfy the requirement of eight hours in Group II.

Domestic Science 1a. Selection and Preparation of Foods: Study of food principles in relation to chemical composition and value in the body; changes effected by heat, cold, or fermentation; study of the problem of marketing. Fundamental cooking processes are illustrated in the preparation of foods. Prerequisites, Chemistry 1, and Domestic Science 5. Deposit required. 4 hours.

Domestic Science 2b. Selection and Economic Uses of Foods: Continuation of Domestic Science 1. Planning, preparation, and serving of meals based upon economic and dietetic standards. Prerequisite, Domestic Science 1. Deposit required. 4 hours.

Domestic Science 3a. Dietetics: Principles of diet; relation of food to health; influence of age, sex, and occupation on diet; application of principles to needs of individuals and groups under varying conditions; methods of computing dietaries. Planning and serving dietaries under various physiological and economic conditions. Prerequisites, Domestic Science 2, Physiology 1, and Bacteriology 2. Deposit required. 4 hours.

Domestic Science 4b. Special Problems in Dietetics: Dietetic treatment of certain diseases; study of food for infants and children of different ages; principles of home nursing; computing, preparation, and serving of dietaries suitable for infants and growing children. Prerequisites, Domestic Science 3, and Hygiene 2. Deposit required. 4 hours.

Domestic Science 5a. Food Products: Study of source, manufacture, adulteration, and preservation of food-stuffs. This course is a prerequisite to Domestic Science 1, but may be taken at the same time with that course. 2 hours.

Domestic Science 12b. Special Problems in Home Architecture: Study of the size and arrangement of rooms and the location of equipment with reference to economy of labor. Study of furniture, utensils, appliances, and convenience from the point of view of utility and economy. 2 hours.

Domestic Science 14b. Home Administration: Organization of the household; division of income; household accounts; general principles of buying; division of labor and responsibility in the home; system and efficiency in methods of housework; care of utensils and furniture; cleaning of fabrics and removal of stains. 2 hours.

Domestic Science 23a. Textiles: Economic aspects in the purchase of textiles for household use; draperies; rugs; table linen; bed linen; clothing; and millinery. 2 hours.

Education 145a. Teacher's Course in Domestic Science: Instruction in methods of teaching domestic science; observation work; lesson planning and practice teaching. 2 hours.

ECONOMICS

Professor Dowd, Assistant Professor Adams, Mr. Robb

Economics 1 and 2 may not be counted as major work.

Botany 5 (General Forestry), Botany 6 (Industrial Botany), Geology 3 (Economic Mineralogy and Geology), and Business 1 (Office Methods) may count as major credit in this department.

Primarily for Undergraduates

Economics 1a. Elementary Economics: A treatment of the fundamental principles of the science. Seager's Principles of Economics. Assistant Professor Adams, Mr. Robb. 4 hours.

Economics 2b. Economic History of England: A study of the development of industry and commerce in England. Prerequisite, Economics 1. Assistant Professor Adams, Mr. Robb. 2 hours.

Economics 3b. Economic History of the United States: A study of the main economic problems that have confronted our country, their relation to the distribution of population, to social conditions and politics. (Given in alternate years. Given in 1916-17.) Assistant Professor Adams. 2 hours.

Economics 4a. Money and Banking: The first part of this course will be taken up with a study of the theories and principles of money; the second part will consist of a study of the principles of banking used in the United States with particular reference to the history and operation of the new national bank act. The work will consist of lectures, assignments, and recitations, and will be made as practical as possible. Assistant Professor Adams, Mr. Robb. 4 hours.

Economics 5b. Public Finance: A study of the principles of public expenditure, public revenue, public indebtedness, and financial administration. A part of this work will consist of practical research and investigation on the part of each student. Plehn's Public Finance will be followed as an outline of the course, but the major part of the class-room work will consist of lectures and assigned readings. Assistant Professor Adams, Mr. Robb. 4 hours.

Economics 6b. Labor Problems: The conflicts between employers and wage-earners—trade unionism, arbitration, strikes, lockouts, boycotts, and sabotage—will be treated from the point of view of the public, the employer, and the laborer. Labor legislation for the protection of the health and morals of the workers will be studied as well as woman and child labor legislation. Co-operation, profit-sharing, and other methods of increasing the efficiency and welfare of wage-earners will be taken up. Lectures, assigned readings, and class discussions. Each student will be assigned a subject for special study. Assistant Professor Adams, Mr. Robb. 4 hours.

Economics 7a. Economic Geography: A general survey of the natural resources, industries, and commerce of the leading nations, with special reference to the domestic and foreign trade of the United States. Smith's Industrial and Commercial Geography, supplemented by the publications of the Department of Commerce and other collateral reading. (This course is given in alternate years. Given in 1916-17.) Assistant Professor Adams. 2 hours.

Economics 8a. Principles of Accounting: A study of bookkeeping and auditing as applied to mercantile business, banking and manufacturing; office management; partnership and corporation finance; cost accounting; correspondence; analysis of business statements. Professor Dowd. 2 hours.

Economics 9b. Business Administration: Business organization and management; factory efficiency; modern scientific methods of planning a factory; buying, selling, borrowing, credit and collections, advertising, trade marks, patents, etc. Professor Dowd. 2 hours.

Economics 10a. Business Law: Definition of a partnership, its creation and purposes; firm name and good will; partnership property; rights and duties of partners inter sese; powers and liability of partners; termination; limited partnerships; joint stock companies; partnership associations; nature of a corporation; formation; powers and liabilities; ultra vires transactions; rights of stockholders; directors; legislative control; dissolutions; creditors' rights. Professor Dowd. 4 hours.

For Undergraduates and Graduates

Economics 100a. Industrial Combinations: The history and the causes of the development of industrial organizations and combinations in the United States; their relation to the public, the investor, and the wage-earner. A thorough examination will be made of the problems and difficulties of governmental regulation of industrial organizations. Each student will be assigned a special problem for investigation and report. The class work will consist of class discussions, lectures, and assigned readings. The course will be based on Haney's Business Organization and Combination. Assistant Professor Adams, Mr. Robb. 4 hours.

Economics 101b. Transportation: A study of the most important economic phases of the railway and water transportation problems. Lectures, readings, and reports. (Given in alternate years. Given in 1917-18.) Assistant Professor Adams. 2 hours.

Economics 102b. Insurance: A study of the fundamental problems of all kinds of insurance, with a detailed study of life and social insurance. This course is thoroughly practical, and is intended to

prepare the student for insurance work. Assistant Professor Adams, Mr. Robb. 2 hours.

Economics 103b. Economic and Social Statistics: The sources and reliability of statistical data; special reference will be made to the statistics of present economic and social problems. Practice will be given in handling statistical data; the methods of distinguishing true from false inferences. This course is aimed to help either the student who wishes to do research work in the future, or the one who wishes to engage in practical business after graduation. Assistant Professor Adams, Mr. Robb. 2 hours.

Economics 104a. Rural Economics: This course deals with the problems of increasing the efficiency of agriculture both from the point of view of the individual farmer and the nation as a whole. The problems of farm management, tenancy, rural credit, co-operative buying and selling, transportation, and insurance will be taken up. Assistant Professor Adams, Mr. Robb. 2 hours.

Economics 105b. South American Trade: A study of the natural resources, transportation, shipping, credit system, banking, and trade in Central and South America, and the West Indies. Professor Dowd. 2 hours.

Primarily for Graduates

Economics 200a. Seminary for Research: This course is aimed to develop original investigation. Open to graduate and major students. Professor Dowd and Assistant Professor Adams. 1 to 3 hours.

Economics 201b. Seminary for Research: A continuation of Economics 200. Professor Dowd and Assistant Professor Adams. 1 to 3 hours.

EDUCATION

Professor Phelan, Professor Parsons, Professor Schmidt Assistant Professor Brooks

Philosophy 1 or 51 is a prerequisite to all courses in education, and should be elected in the sophomore year.

Philosophy 1 and 51 and Education 2 may not be counted as major work.

With the consent of the department, the courses in methods of teaching high school subjects may be counted to the amount of not more than four hours as major or minor work in education.

Some knowledge of logic, ethics, sociology, and biology is desirable for students doing major work in education.

Primarily for Undergraduates

Philosophy 1a. Elements of Psychology: See Philosophy. Assistant Professor Brooks. 4 hours.

Philosophy 51a. General Psychology: See Philosophy. Professor Phelan. 4 hours.

Education 2b. Educational Psychology: A study of the elements and principles of the learning process; the fundamental instincts and capacities; the organization of experience as habit, perception, imagination, memory, association, correlation of studies, transfer of training, attention and interest, analysis, reasoning, cultivation of emotions, motor expression, and motor training. Collateral readings, lectures, recitations. Colvin's Learning Process. Professor Phelan. 4 hours.

Education 20b. History of Education, Ancient, Mediaeval and Modern: The purpose of this course is to trace the development of educational theory and practice as determined by the various social, economic, political, and religious conditions in different nations from earlier times to the present. Particular attention will be given to an evaluation of present educational practices and beliefs. Class discussions, supplemented by assigned readings and lectures. Monroe's History of Education. Students wishing to take this course for graduate credit will be required to do additional work; in that case the course will be called Education 120. Assistant Professor Brooks. 4 hours.

For Undergraduates and Graduates
Division A

Education 101a. Principles of Education: A course in the philosophy of education. The aims, ideals, and basis of effective teaching will be examined in the light of biology, psychology, and sociology. The school will be studied as a social institution, with special regard to the ethics of democracy, and the institutions that educate. The nature of the curriculum will be determined with reference to the doctrine of formal discipline, and the elemental educative values. The relation of psychology to teaching will be shown in the problems of instinct, interest, habit, memory, perception, and inference. Collateral reading, lectures, recitations, and thesis. Ruediger's Principles of Education. (Given in alternate years. Given in 1917-18.) Professor Phelan. 2 hours.

Education 102a. The High School Program of Studies: This course deals with the organization of high school curricula as determined by social and educational needs. Among the topics receiving special attention are: the historical development of the program of studies; evaluation and criticism of existing curricula; present economic, social, civic, moral, and cultural demands upon the program of

studies; reforms now under way; actual community analyses; and principles upon which reconstruction must be based. Lectures, readings, and discussions. Professor Parsons, Professor Schmidt. 2 hours.

Education 103b. The Social Administration of the High School: This course deals with the theoretical and practical aspects of the high school as a social institution. Special attention is given to such topics as: the meaning and scope of secondary education; the psychology and hygiene of adolescence; the institutional relationships of the high school; its functions in preparing for college, for vocation, for social intercourse, for citizenship, for health, and for leisure occupation; principles of efficient organization; and scientific management; and the high school as a social center. Professor Parsons, Professor Schmidt. 2 hours.

Education 104b. Child Study: A study of the child mind in development. (a) History, sources, aims, and methods of child study; the problems of infancy, physical and mental growth, instinctive activity, motor development, play, interest, habit, linguistic development, personality, abnormalities, and stages of childhood. (b) The adolescent stage: its periods of growth, storm and stress, mutual unifications, moral and religious awakenings, juvenile faults and crimes, play and games. Professor Phelan. 4 hours.

Education 105a. Experimental Education: This course considers the motor, intellectual, and emotional development of childhood and youth. Problems of growth, play, fatigue, individual and sex differences are studied. Mental and social measurements are investigated, consisting of physical, motor, and sensory tests, and experiments in perception, attention, association, suggestion, imagination, and memory, and psychology and pedagogy of reading, writing, spelling, composition, and arithmetic. Lectures, recitations, readings, and laboratory. Rusk's Introduction to Experimental Education. Professor Phelan. 4 hours

Education 106a. Elementary School Methods: A course in grammar grade methods for superintendents and principals; special emphasis given to the child's process of learning and the method of the recitation. The aim is to familiarize the student with the correlation of the subject matter of the school curriculum, and the principles involved in the construction of a course of study. Discussion of the best methods of teaching arithmetic, language, history, geography, and science will be paralleled by observation work. Lectures, required readings, writing of lesson plans, and text-book study. (Given in alternate years. Given in 1917-18.) Professor Schmidt. 4 hours.

Education 107a. Educational Theorists of Modern Times: An intensive study of selected portions of the educational writings of Rousseau, Pestalozzi, Herbart, Froebel, Montessori, and Dewey, involving a critical consideration of the applications of such theories as the doctrine of development, the doctrine of liberty, auto-education, practical life activities, formal discipline, the project-method, the doctrine of interest, etc., to educational practice. Lectures, class discussions, and a written report on some special problem. Assistant Professor Brooks. 2 hours.

Education 108b. Secondary School Methods: This course deals in a scientific and practical manner with the problems of high school instruction and discipline. Principles of practice are developed in the light of the psychology of adolescence, the psychology of subject matter, the psychology of learning and thinking, and current social demands. During the latter part of the semester each student is required to make a careful survey of the best literature dealing with the teaching of his major and minor subjects. The work is further paralleled by observation in neighboring high schools. Professor Schmidt. 4 hours.

Education 109a. Foreign School Systems: This course deals with the organization, administration, and supervision of education in the leading foreign school systems. Constant reference is made to conditions in this country. The course, although primarily professional, is nevertheless especially well adapted to students in other departments who wish to acquaint themselves with educational ideals and practices the world over. Professor Schmidt. 2 hours.

Education 110a. Principles of Moral Education: An examination of the nature of character development, and the application of the principles thus derived to the problems of character building confronting the teacher and parent. A study of moral values and the methods of moral instruction and training in the schools. Lectures, readings, discussions, and a thesis. Holmes' Principles of Character Making. (Given in alternate years. Given in 1917-18.) Professor Phelan. 2 hours.

Education 111b. Social Phases of Education: A consideration of education as a social process. The place and function of the school as a social factor in its relation to the home, the state, the church, trade, and amusements. Among the topics treated are: the social extension of the school; school and the business world: parental schools; the juvenile court; self-governing clubs; the boy problem; education and crime; industrial education; agricultural education; athletics; course of study; six-year high school; social study period and re-

citation; and high school fraternities. Lectures, readings, reports, and thesis. Professor Phelan. 2 hours.

Education 112b. City School Administration: This course deals with the organization, administration and supervision of city school systems. Special attention will be given to such topics as: the legal, administrative, and supervisory organization of city school systems; respective functions of school boards, superintendents, principals, and teachers; the curriculum, and types of schools and courses of study as determined by community needs; standards for building and general material equipment; text-books and courses of study; the training, selection, improvement, and promotion of teachers; grading and promotion of pupils; methods and means of scientific supervision and management; records; and annual reports. The work from beginning to end is based upon a study of actual conditions as revealed in recent school surveys and in neighboring school systems. Professor Schmidt. 4 hours.

Education 113. Educational Measurement: A survey of experimental investigations of school problems, an intensive study of units, scales, and standards for measuring educational achievement in arithmetic, spelling, writing, reading, composition, and grammar. Special emphasis is placed on the Courtis tests in reading, writing, and arithmetic, Ayers and Thorndike tests in handwriting, the Hillegas tests in composition. This is a correspondence course in which students qualified by previous training will be assigned problems for experimental investigation in the public schools of the state. This is an advanced course. Prerequisites, Education 2 and Education 105, or equivalent. Professor Phelan. 2 hours.

Education 114a. Psychology of Mental Deficiency: This course considers the varieties and grades of mental deficiency, the backward child, the feeble-minded, and the exceptional child; methods of clinical examination, Binet scales, uses and limitations; clinical tests and observations. Lectures, reports, and laboratory. (Given in alternate years. Given in 1916-17.) Professor Phelan. 2 hours.

Education 115a. Vocational Education: This course deals with the leading types of vocational education as found in Europe and America. Especial attention is given to agricultural, commercial, and industrial education, and to continuation schools and courses. After a rapid survey of the European situation, an intensive study is made of American conditions, legislation, typical state and city systems, characteristic institutions, and the most pressing current problems are especially emphasized. During the latter part of the semester a co-operative survey is made of the needs and facilities for vocational education in Oklahoma. This is followed by the formula-

tion of a proposed scheme for vocational education in the state. Professor Schmidt. 4 hours.

Education 116b. Vocational Guidance: The course includes a survey of the recent rapid development of the various organizations, within and outside of the schools, for securing a more rational adjustment between education and early vocational experiences. Such topics as guidance, placement, employment supervision, vocational analysis, cumulative school records, vocational surveys, and vocation bureaus will be discussed. Special attention will be given to the relation of industrial education to vocational guidance. (Given in alternate years. (Given in 1917-18.) Professor Phelan. 2 hours.

Education 117b. School Hygiene: The work of this course considers the physical welfare of the child in its relation to its moral and intellectual development. It involves the study of school legislation relative to school hygiene, heating, lighting, and ventilating of school rooms, physical exercise, medical inspection, nature of communicable diseases, detection and treatment of the defects of the senses, laws of fatigue, hygienic programs, etc. Lectures, selected readings, and reports. (Given in alternate years. Given in 1916-17.) Professor Phelan. 2 hours.

Education 118b. Statistical Method: This is essentially a course in school surveys. It deals with the theory and practices of the statistical method as applied to the study of educational problems. Typical school surveys and a variety of other statistical investigations will be carefully examined. Considerable practice will be given in the solution of problems from original data. Members of the class will be required to make actual surveys of educational conditions in neighboring cities. This course is intended for high school principals and superintendents, and for those expecting to engage in research. Professor Schmidt. 2 hours.

Education 119b. Rural Education: A course designed especially for county superintendents, rural school supervisors, principals and teachers of consolidated and village schools, and principals of larger rural schools. A study of rural economic and social conditions of Oklahoma will show certain fundamental rural needs. A critical constructive examination of the rural and village schools of the present will be made in the light of these needs, and thus will be discovered the necessary reorganization, redirection, and revitalization of these schools in the following respects: (1) the newer subjects of the curriculum, as agriculture, domestic science, domestic art, etc., and the methods of introducing them and making them more effective; (2) the content of the older subjects of the course of study, as arithmetic, history, etc., in view of these rural needs; (3) the function of, and the

ways of handling, rural and village community and extension work, home projects, club work, etc.; (4) the village high school, its curriculum and its relation to the rural problem; (5) the work of teacher, principal, supervisor, and county superintendent in making the school the central factor in the solution of this vital educational problem. A broad survey of successful rural schools and of successful rural school methods in use in different sections of the country will be made. Assistant Professor Brooks. 2 hours.

Education 121a. Principles of Method: This course deals with the fundamental principles of instruction, supervision, and class-room management. These are developed in accordance with the requirements of child psychology, the psychology of learning and thinking, the psychology of subject matter, and current social demands. The theoretical work is constantly paralleled by observation in the local schools. The course is intended for elementary and high school teachers, and for prospective high school principals and superintendents, Professor Schmidt. 4 hours.

Education 122a. State and County Educational Administration: This course deals critically and constructively with the legal organization, the administration, and the supervision of state, county, township, and district school systems. Familiarity with actual conditions is secured through a careful study of the various school codes, the reports of state superintendents, state and county school surveys, and original investigation. Due attention is given to such reform movements as county unit organization, consolidation of schools, rural supervision, methods of levying and apportioning school funds, standards for buildings and equipment, improvement of teachers, uniform records, and community centers. The work of the course, although nationwide in its scope, will center constantly about Oklahoma conditions. Professor Schmidt. 2 hours.

Education 123a. History of Education in the United States: A study of the development of the elementary school, the secondary school, and the higher educational institutions, from the dame school, the Latin grammar school. and other transplanted European institutions, through the period of the modification of educational institttions to meet new conditions (the district school, the academies, the denominational college, etc.), to the present educational system, embracing free elementary schools, high schools, state universities, privately endowed colleges and universities, and various types of technical schools, together with an examination of our educational situation in the light of the social, economic, and moral conditions of today. Class discussions, readings, reports on special problems, and lectures. Assistant Professor Brooks. 4 hours.

Education 124b. Education through Play: This course considers

the educational principles underlying the play movement, play as physical and intellectual training, play and the formation of habits and character, play in the German, English, and American schools, the place of play in the curriculum in rural school, high school, summer school, and social center, the training of play teachers, the construction of playgrounds, play equipment, and the play festival. This course aims to give superintendents, principals, and teachers the correct conception of play in the school, and practical knowledge of effective school games. Text, Curtis' Education Through Play. Professor Phelan. 2 hours.

Education 125a. Principles of Religious Education: A study of the psychological and pedagogical principles underlying the practical work of religious training. the organization of the Sunday school, the duties of pastor, superintendent, and teacher, the teaching process, the lesson plans, the individual and social character of the pupil, his physical, mental, and religious needs. (Given in alternate years. Given in 1916-17.) Professor Phelan. 2 hours.

Division B

Education 129a. Practice Teaching: Juniors and seniors who have met certain specific requirements may teach in the Norman high school under the supervision of the department. The entire group of practice teachers will meet the supervisor of practice teaching occasionally for a discussion of general principles and problems. Frequent individual conferences will be provided. On such occasions lesson plans and specific problems are considered. Students desiring to elect this work should make application during the preceding semester. Professor Schmidt. 2 hours.

Education 130b. Practice Teaching: A continuation of Education 129. Professor Schmidt. 2 hours.

The following courses in special methods of teaching are described in full under the respective departments.

Education 131b. Teacher's Course in English: Intended primarily for high school teachers of English. Prerequisites, English 1 and 2. See English. Professor Hadsell. 2 hours.

Education 132b. Teacher's Course in Latin: Methods of teaching Latin; more difficult portions of third and fourth-year Latin translated; syntax. See Latin. Professor Sturgis. 2 hours.

Education 133b. Teacher's Course in Mathematics: Attention is given chiefly to the organization and methods of presentation of algebra and geometry. See Mathematics. Assistant Professor Gossard. 2 hours.

Education 134b. Teacher's Course in French: Methods of

teaching French, analysis of high school texts. See French. Professor Dora. 2 hours.

Education 135b. Teacher's Course in German: Study and discussion of methods of teaching German in secondary schools. See German. Professor House. 2 hours.

Education 136a. Teacher's Course in Botany: For teachers of botany in high schools. See Botany. Professor Van Vleet. 2 hours.

Education 137b. Teacher's Course in Zoology: Course designed for teachers of nature study in the public schools and zoology in the high schools. See Zoology. Mr. Cross. 2 hours.

Education 138b. Teacher's Course in Public Speaking: Investigation of the methods of teaching public speaking in the high schools. See Public Speaking. Miss Anderson. 2 hours.

Education 139a. Teacher's Course in Music: Course for supervisors of music. See Music. School of Fine Arts. Professor Dungan. 2 hours.

Education 140b. Teacher's Course in Music: See Music, School of Fine Arts. Professor Dungan. 2 hours.

Education 141a. Teacher's Course in Physical Education for Men: Instruction in methods of teaching gymnastics and athletics. See Physical Education. Professor Soutar and Assistant Professor Owen. 4 hours.

Education 142b. Teacher's Course in Physical Education for Men: A continuation of Education 141. See Physical Education. Professor Soutar and Assistant Professor Owen. 4 hours.

Education 143a. Teacher's Course in Physical Education for Women: Instruction in methods of teaching gymnastics and athletics. See Physical Education. Miss Revell. 4 hours.

Education 144b. Teacher's Course in Physical Education for Women: A continuation of Education 143. See Physical Education. Miss Revell. 4 hours.

Education 145a. Teacher's Course in Domestic Science: Instruction in methods of teaching domestic science. See Domestic Science. Assistant Professor Hopkins. 2 hours.

Education 146b. Teacher's Course in Physics: Study and discussion of methods of teaching physics in the high school. See Physics. Professor Haseman. 2 hours.

Education 150b. Teacher's Course in History: For teachers of history in high school. See History. Mr. Dale. 2 hours.

Primarily for Graduates

Education 201a. Philosophy of Education: The course in advanced educational theory follows MacVannel's outline in the

Philosophy of Education, and embraces such topics as the following: evolution and idealism as bases of education; personality and environment; the individual and society; moral institutions; democracy and education; the course of personal development; the school as a social institution; the course of study. (Given in alternate years. Given in 1917-18.) Professor Phelan. 1 or 2 hours.

Education 202b. Seminary in Educational Psychology: Introductory work in the psychology of education is presupposed. Opportunity for research is provided. Experimental investigation in the psychological laboratory and the neighboring public schools. (Given in alternate years. Given in 1916-17.) Professor Phelan. 1 or 2 hours.

Education 203b. Current Educational Problems: The topics discussed will necessarily vary somewhat from year to year. This is a research course in the problems of education now in the focus of consciousness of the educational public. Reports and class discussions based on current educational magazines, recent monographs, and educational publications. This course should be of special interest to teachers and advanced students of educational and social problems. Assistant Professor Brooks. 1 or 2 hours.

Education 204b. Seminary in Educational Administration: A research course for advanced students who desire to engage in individual investigations, or who are prepared to co-operate in the intensive study of some one problem. Professor Schmidt. 1 or 2 hours.

Education 205a. The Psychology and Pedagogy of Reading: This course involves a careful survey of the following topics: the psychology of language, the various aspects of the reading process, experimental investigation of reading, actual conditions as found in public schools, evolution and present status of reading texts, and the hygiene of reading. Lectures, readings, reports, and individual observation and experimentation. The course is intended primarily for superintendents, principals, supervisors, and teachers of English. Professor Schmidt. 1 or 2 hours.

Education 206b. Seminary in the History of Education: Research course, investigating such problems as historical development of the educational system of Oklahoma, present economic and social conditions of Oklahoma, and the corresponding demands upon the school system as to organization, courses of study for different types of schools, and methods of instruction, etc. Assistant Professor Brooks. 1 or 2 hours.

Education 207b. Educational Clinic. A clinical study of the child with opportunity for observation, examination, and measurement of public school children. During the past year the educational clinic has co-operated with Oklahoma school superintendents in giving the

Courtis tests. The laboratory makes comparative studies of these results, collects information about educational measurements from other states, and investigates the original contributions to the scientific study of educational measurement. The clinic will undertake research work in the Courtis tests, in arithmetic and English, the Thorndike tests in reading, and the Ayers tests in spelling. Open to seniors by permission. Professor Phelan. 1 or 2 hours.

ENGLISH

Professor Brewer, Professor Hadsell, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, Mr. W. S. Campbell, Mr. L. Q. Campbell, Mr. Frierson.

The work in English falls into three main divisions, composition, language, and literature.

The division in composition includes courses 1, 2, 5, 16, 17, 117, 118, 119. Some study of literature forms a part of the courses in composition.

The division in language includes courses 15, 100, 101, and 102. Some study of language forms a part of the courses in Shakespeare and Chaucer.

The division in literature is sub-divided as follows: Courses 3, 4, 6, 7, 11, 13, 14, 108, 109, and 116 are concerned with movements and schools in English literature; while courses 106, 107, 110, 111, 112, 113, 114, 115, and 121 have to do with the more intensive study of individual writers, or groups of writers.

English 1 and 2 are required of all candidates for the bachelor's degree. English 3 and 4 are required of all who select English as a major subject; they serve as a general introduction to English literature, and are recommended to students who wish to do only limited work in English literature, and to those who wish to fulfill the requirements in Group I with English.

English 1, 2, 3, and 4 may not be counted as major work.

Suggestions to Major Students

Major students should follow some consistent plan of work. The following sequences are suggested:

For students who expect to continue their work in English beyond the undergraduate course: 15, 100, 101, 102, 106, 107, 108, 109, 121.

For students who expect to go into journalism or other business or profession: 5, 15, 16, 17, 117, 118, 106, 107, 111, 112.

For teachers of English: 15, 100, 121, 106, 107, 16, 17, 111, 112, 131.

For students whose interests are primarily in literature:

(a) For a more intensive survey than 3 and 4 give: 100, 121, 106, 108, 14, 111, 112.

(b) Renaissance period: 6, 7, 121, 106, 107, 108, 109.

(c) Seventeenth and eighteenth centuries: (3 and 4), 6, 7, 11, 14, 109, 125.

(d) Nineteenth century: 13, 117, 118, 116, 110, 111, 112, 113, 114, 115.

Primarily for Undergraduates

English 1. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence. Daily and fortnightly themes. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it. The course is given in thirteen sections. Professor Brewer, Professor Hadsell, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, Mr. W. S. Campbell, Mr. L. Q. Campbell, Mr. Frierson. 4 hours.

English 2. First Principles of English Composition: Long and short themes at stated intervals. A study of selected examples of nineteenth century prose. Lectures on the use of words. English 2 is a continuation of and presupposes English 1. The course is given in thirteen sections. Professor Brewer, Professor Hadsell, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, Mr. W. S. Campbell, Mr. L. Q. Campbell, Mr. Frierson. 4 hours.

English 3a. English Literature from Spenser to Pope, 1575-1745: A study in movements, with special attention to the secondary dramatists of the Elizabethan age, to the literature of the Restoration, and to the rise of classicism. Lectures and readings. Mr. Morgan, Mr. W. S. Campbell. 4 hours.

English 4b. English Literature from Johnson to William Morris, 1745-1896: A continuation of English 3, with special consideration of the decay of classicism, the romantic reaction, and the movements of nineteenth century literature. Lectures and readings. Mr. Morgan, Mr. W. S. Campbell. 4 hours.

English 5a. Argumentation: Practice in analysis, testing of evidence, and argumentative style, brief drawing and the gathering and presentation of material for debates and argumentative themes. Prerequisites, English 1 and 2 for students in the College of Arts and Sciences. Open to students from other colleges on approval of the department. Mr. L. Q. Campbell. 4 hours.

English 16a. Advanced Composition: This course affords practice in the various kinds of writing to students who have passed

English 1 and 2. It is intended primarily for sophomores. Assistant Professor Ramey. 2 hours.

English 17b. Advanced Composition: A continuation of English 16. Open also to students who have not taken English 16 but who have had sufficient preparation to do the work of the course. Prerequisites, English 1 and 2. Assistant Professor Ramey. 2 hours.

English 6b. The English Bible: The history of the English Bible. The New Testament from the point of view of literature. Lectures and assigned readings. Prerequisites, English 1 and 2. Mr. Smith. 2 hours.

English 7a. The English Bible: A literary study of the poets and prophets of the Old Testament. Lectures and assigned readings. Prerequisites, English 1 and 2. Mr. Smith. 2 hours.

English 11a. American Literature: A study of the literary productions of America, from the settlement of the colonies to the present time. Lectures and reports from assigned readings. Prerequisites, En lish 1 and 2. Mr. W. S. Campbell. 4 hours.

English 13b. The Novel in the Nineteenth Century: A study of the chief novelists from Scott to Hardy, with some account of contemporary fiction, and a special study of realism. Prerequisites, English 3 and 4 or equivalent. (Given in alternate years. Given in 1916-17.) Mr. Morgan. 3 hours.

English 14a. The Novel in the Eighteenth Century: A study of the structure and history of the novel from its beginnings to Scott. Lectures and library work. Prerequisites, English 3 and 4, or equivalent. (Given in alternate years. Given in 1916-17.) Mr. Morgan. 3 hours.

English 15a. Historical English Grammar: An outline history of the development of the English language, with a review of English grammar. This course will be of interest to students who have completed English 2, and to teachers of English. Prerequisites, English 1 and 2. (Given in alternate years. Given in 1916-17.) Professor Hadsell. 4 hours.

For Undergraduates and Graduates

English 117a. Advanced Composition: A course in writing for students of junior, senior, or graduate rank. Particular attention is paid to the short story. Except in unusual cases the prerequisites are English 1, 2, 16, and 17. Mr. Morgan. 2 hours.

English 118b. Advanced Composition: A continuation of English 117 with the same prerequisites. With the permission of the department this may be taken as an independent course. Professor Hadsell. 2 hours.

English 119a. Advanced Composition: A course in writing for engineers. Particular attention is given to the gathering and prep-

aration of material and to the writing and criticism of scientific papers. Prerequisites, English 1 and 2. Professor Hadsell. 2 hours.

English 100a. Anglo-Saxon: An introduction to early English prose and poetry. Bright's Anglo-Saxon Reader. Prerequisites, English 1, 2, 3 and 4. Professor Brewer. 4 hours.

English 101b. Anglo-Saxon Poetry: Beowulf. The poem will be studied as a text, as a work of literature, and as a historical document. Prerequisite, English 100 or an equivalent. (Given in alternate years. Given in 1916-17.) Professor Brewer. 4 hours.

English 102a. Middle English: An introduction to the study of Middle English prose and poetry. Prerequisite, English 100 or equivalent. (Given in alternate years. Given in 1916-17.) Assistant Professor Ramey. 4 hours.

English 106a. Shakespeare: The early comedies, the chronicle plays, the later comedies, the tragedies, and the romances are studied in succession. Eight plays are studied in class and eight or more, together with the life of Shakespeare, are assigned for library reading. Lectures, readings, and reports. Prerequisites, English 1, 2, 3 and 4, or the equivalent. Professor Brewer. 4 hours.

English 107b. Shakespeare: In this course, a thorough study of several plays not studied in English 106 is made. This is a continuation of English 106, but it may be taken as an independent course. Lectures and library work. Prerequisites, English 1, 2, 3 and 4, or the equivalent. Professor Brewer. 4 hours.

English 108a. The Drama: A study of the rise and development of the drama from the earliest miracle plays to the close of the sixteenth century. A seminary with lectures and assigned readings in the dramatic authors of this period, exclusive of Shakespeare. Discussions and reports. Prerequisites, English 3 and 4, and one other semester of elective English, preferably English 106. Assistant Professor Ramey. 4 hours.

English 109b. The Drama: This is a continuation of English 108, but with the permission of the department it may be taken as an independent course. A study of the progress of the drama to the closing of the theatres in 1642. Attention is paid to the Restoration and the later drama. Seminary with lectures, discussions, and special reports. Prerequisite, English 3 and 4, and either 108, or 106 or 107. Assistant Professor Ramey. 4 hours.

English 116b. The Modern Drama: A study of the principal English and European dramatists of the end of the nineteenth and of the beginning of the present century. Lectures and assigned readings. Prerequisites, English 3 and 4. Mr. Morgan. 2 hours.

English 110b. American Poetry: Studies of representative

American poets. Special attention was given Lanier, Poe, Whitman, Emerson, and Lowell in 1915-16. Lectures and recitations. Prerequisites, English 1, 2 and 11. Mr. Frierson. 2 hours.

English 111a. Early Nineteenth Century Poetry: In this course a study is made of the romantic poets from Wordsworth to Keats. Particular attention is paid to the romantic movement in English poetry. Prerequisites, English 3 and 4. Professor Hadsell. 4 hours.

English 112b. Tennyson and Browning: A study of the poetry of Tennyson and Browning and Arnold, and of the period in which these three poets were the dominant figures. Lectures and assigned readings. Prerequisites, English 3 and 4. (Given in alternate years. Given in 1917-18.) Professor Hadsell. 4 hours.

English 113b. Later Victorian Poetry: A study of Rossetti, Swinburne, Morris, with some attention to the verse of the minor poets of the period. Lectures and assigned readings. (Given in alternate years. Given in 1916-17.) Prerequisites, English 3 and 4. Mr. Frierson. 2 hours.

English 121b. Chaucer: A study of Chaucer's English and of his work. Lectures, reports, and a thesis. Prerequisites, English 3, 4, or 1, 2, and 15. Professor Hadsell. 4 hours.

English 125b. Literary Criticism: The principles and theories of literary criticism will be studied. Lectures, assigned readings, and reports. Prerequisites, English 3 and 4, and two elective courses. Assistant Professor Ramey. 4 hours.

Education 131b. Teacher's Course: Intended primarily for high school teachers of English, but open to juniors and seniors. The work will be practical, consisting chiefly of specimen studies of English and American classics, a review of the leading principles of composition, with practice in writing and correcting papers, and a survey of the methods of teaching English. Lectures, recitations, and exercises. Prerequisites, Engliso 1 and 2, or their equivalent. Mr. Smith. 2 hours.

Primarily for Graduates

English 200a. Nineteenth Century Essayists: Studies, intended particularly for graduate students in the essayists and journalists of the early part of the century. Special seminary studies are usually made in Lamb, Hazlitt, Leigh Hunt, and DeQuincey. Open to undergraduate students only by permission of the head of the department, Professor Brewer. 3 hours

English 201b. Nineteenth Century Essayists: A continuation of English 200 with special studies in Macaulay, Carlyle, Ruskin, and the prose writers of the latter part of the century. Open to under-

graduate students only by permission of the head of the department. Professor Brewer. 3 hours.

English 202. Mediaeval Literature: English literature from the Norman conquest to Chaucer, 1066 to 1340. A consideration of the movements of this period, a study of the principal forms of literature produced in the period, together with a discussion of problems and bibliography. Lectures, readings, and a term paper. Open to undergraduates only by permission of the head of the department. (Given in alternate pears. Given in 1916-17.) Professor Hadsell. 4 hours.

FRENCH

See the Department of Romance Languages.

GEOLOGY

Professor Taylor, Associate Professor Mehl, Mr. Brown, Mr. Williams

Eight hours, selected from Geology 1, 2, and 3, satisfy the freshman science requirement.

Geology 1 and 2 are not accepted for major work.

If Geology 1 is elected, it should precede Geology 2 or 3.

Primarily for Undergraduates

Geology 1. Elementary Geology: A general introductory course. A study of the origin of the earth, its past and its probable future; the chief rocks and minerals and the manner of their formation, destructive and reconstructive processes; crustal movements and mountain structures; vulcanism and metamorphism; a chronological study of the history of the earth, and of the development and evolution of life forms. A field excursion to the Arbuckle Mountains is included as part of the required work. Professor Taylor, Associate Professor Mehl. 4 hours.

Geology 2. Physiography: A study of the development of land forms and of the agents which produce them. Special consideration is given to the life history and work of streams, to glaciers, to the ocean, volcanoes, etc. The course includes a brief consideration of meteorology. A field trip to the Arbuckle Mountains is included as a part of the required work. Professor Taylor, Mr. Brown, Mr. Williams. 4 hours.

Geology 3b. Elementary Mineralogy and Economic Geology: A megascopic determination of the more important rock-making minerals and ores. The occurrence, value, and methods of recovery of the valuable minerals. A brief discussion of the origin, mineral and chem-

ical composition, and classification of rocks. This course is designed to meet the needs of high school teachers and others not planning to take their major work in geology. Desirable antecedent, Chemistry 1. Professor Taylor, Mr. Williams. 4 hours.

Geology 4b. Map Interpretation: A critical study of geologic and topographic maps. Special attention is given to accurate interpretation of maps showing typical geologic structures. A contour map of a specified region is made by each student. The course also includes work in structural geology. Prerequisites, Geology 1 and 2. Desirable antecedent, Mathematics 9. Mr. Brown. 4 hours.

Geology 5a. Oklahoma Geology and Geography: The geology and geography of Oklahoma, with particular reference to the mineral resources, soils, water supply, climate, etc. (Given in alternate years. Given in 1916-17.) Professor Taylor. 4 hours.

Geology 6b. Economic Geography of North America: A study of the distribution and value of minerals, building stone, soils, forests, water power, and crops of North America, and the consequent influence on industrial enterprises. This course will be of special value to teachers of geography as well as to students of geology. Prerequisite, a general knowledge of physiography. Desirable antecedents, Geology 1, 2, and Chemistry 1. Professor Taylor. 4 hours.

Mechanical Drawing 52b. Map Drawing: The preparation of base maps; lettering and printing. The preparation of geological maps in field and office. Open only to those who take their major work in geology. Professor Dwight. 2 hours.

For Undergraduates and Graduates

Geology 101a. Elementary Paleontology: A study of the principal classes of fossil invertebrate animals, from the biological standpoint, with respect to their form, structure, origin, range, distribution, and inter-relations. Lectures, supplemented by laboratory work with specimens. Prerequisite, Geology 1. Associate Professor Mehl. 3 hours.

Geology 100b. Elementary Paleontology: A study of the development of life forms through the various geological periods from the stratigraphic standpoint, the aim being to familiarize the student with the characteristic fossils of each system. Lectures, supplemented by laboratory work in which each student makes specific determination of fossils. A field trip to the Arbuckle Mountains is required. Prerequisite, Geology 1. Associate Professor Mehl. 3 hours.

Geology 102a. Crystallography and Mineralogy: A study of the laws of crystallization, and the classification of crystals. The physical properties, chemical composition, and mode of occurrence of

minerals. Prerequisite, Chemistry 1. Deposit required. Mr. Williams. 3 hours.

Geology 103b. Mineralogy: A continuation of Geology 102. Descriptive mineralogy and blowpipe analysis. Prerequisite, Geology 102. Deposit required. Mr. Williams. 3 hours.

Geology 104b. Economic Geology: A study of ore deposits with respect to their origin, mode of occurrence, and value. Also a study of coal, salt, gypsum, etc., with particular reference to their occurrence and development in Oklahoma. Prerequisites, Geology 1, 3, or 102, and general chemistry. Desirable antecedents, Geology 100, 101, 105, 106. Professor Taylor. 4 hours.

Geology 105a. Continental Evolution: The principles of continental evolution based on the physical history of North America. Prerequisites, Geology 1, 2, and 100. Associate Professor Mehl. 4 hours.

Geology 106b. Continental Evolution: A continuation of Geology 105; the nature of the work is the same. Prerequisite, Geology 105. Associate Professor Mehl. 4 hours.

Geology 107a. Petroleum and Natural Gas: This course will attempt a thorough study of petroleum and natural gas, including physical properties, composition, origin, distribution, mode of accumulation, structure of developed fields, methods of prospecting, mapping structure of oil fields, methods of drilling and casing wells, and the handling of the product after recovery. Prerequisites, Geology 1, 2, and 4. Desirable antecedents, Geology 3, 105, and 106, and Chemistry 1. Professor Taylor. 4 hours.

Geology 111b. Paleontology of Oklahoma: Designed to give those who desire to do geologic work a knowledge of the characteristic fossils found in the state. Open only to those who in the judgment of the instructor are capable of pursuing the work with profit. Prerequisites, Geology 100, 101, 105. (Given in alternate years. Given in 1916-17.) Associate Professor Mehl. 2 hours.

Geology 112. Special Problems: Lectures and assigned readings on the chief problems of a general nature represented by North American geology and on certain technical questions, such as the possible origin of the earth, the age and origin of the ocean basins, and the possible causes of an ice age. Prerequisites, Geology 1 and 2. Professor Taylor. Credit varies.

Geology 113. Field Work: Students who have had sufficient preliminary training may pursue systematic field work under direct supervision of the department. For this suitable credit will be given. The work will be planned for each individual. Professor Taylor and Associate Professor Mehl. Credit varies

Primarily for Graduates

Geology 200a. Petrography: The principles of optical mineralogy and the determination of minerals under the polarizing microscope. Prerequisites, Geology 102, Physics 2. Professor Taylor. 4 hours.

Geology 201b. Petrology: A study of the origin and classification of igneous rocks; differentiation of rock magmas; metamorphism. Prerequisite, Geology 200. Professor Taylor. 4 hours.

Geology 202b. Advanced Paleontology: A continuation of Geology 101. Laboratory, field work, and assigned readings. Prerequisites, Geology 1, and 100, or 101. Associate Professor Mehl. Credit varies.

Geology 203b. Economic Geology: Advanced course. Special attention will be given to problems of genesis of mineral deposits of economic value. Prerequisites, Geology 103, 104, 107, and 200. Desirable antecedents, Geology 201, and Chemistry 4. Professor Taylor. 4 hours.

GERMANIC LANGUAGES AND LITERATURES

Professor House, Associate Professor Voss, Assistant Professor Steitz

German 1, 2, 3, 4, 9, 10, and 20 may not be counted as major work.

Primarily for Undergraduates

German 1. Beginning German: Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Given in three sections in the first semester and in one section in the second semester. Professor House, Associate Professor Voss and Assistant Professor Steitz. 4 hours.

German 2. Beginning German: This is a continuation of elementary German as given in German 1. Prerequisite, German 1, or equivalent. Given in three sections in the second semester, and in one section in the first semester. Professor House, Associate Professor Voss and Assistant Professor Steitz. 4 hours.

German 3. German Prose and Poetry: The reading of moderately difficult prose and poetry, selected from such authors as Schiller, Freytag, and others; the study of word-formation, syntax, and drill in conversation accompanies each lesson. One hour a week

is devoted to the study of prose composition. Prerequisite, German 1 and 2, or the equivalent. Given in two sections. Professor House and Associate Professor Voss. 4 hours.

German 4b. German Prose and Poetry: Continuation of German 3. Given in two sections. Professor House and Associate Professor Voss. 4 hours.

German 5a. Classic German: Lessing and Schiller. Lessing's Emilia Galotti or an equivalent will be read in class, and the author's literary significance studied and discussed. Reports upon assigned readings will be received in class. One of Schiller's masterpieces will be studied in class, and an appreciative estimate of the author's position in German literature will be sought. Prerequisites, German 1, 2, 3, 4. Assistant Professor Steitz. 4 hours.

German 6b. Classic German: Goethe. A systematic study of the life and writings of the author. Two of the plays will be read in class. Lectures in German and reports in German upon assigned readings. Assistant Professor Steitz. 4 hours.

German 7a. Nineteenth Century Literature: A study of German literary movements in the century. Lectures based upon assigned readings will be given in German. Special emphasis will be put on the importance of the romantic school. Parts of Kleist, Grillparzer, and Otto Ludwig will be read and studied in class. Prerequisites, German 1, 2, 3, and 4. Professor House. 4 hours.

German 8b. Nineteenth Century Literature: The novel and drama of more recent time will be studied. Reports upon assigned outside readings. Lectures in German by the instructor. Representative authors, such as Sudermann, Hauptmann, Fulda, and others, will receive attention in class as well. Prerequisites, German 1, 2, 3, and 4. Professor House. 4 hours.

German 9a. Scientific German: The aim of this course is to afford students of the sciences an acquaintance with technical scientific nomenclature and style. Reading of German scientific texts and articles in current technical periodicals will be required of students. Prerequisites, German 1 and 2. Wait's German Scientific Reader. Assistant Professor Steitz. 2 hours.

German 10b. Scientific German: A continuation of German 9. Reading of German scientific texts (Goeschen Sammlung) and articles in current technical periodicals. Assistant Professor Steitz. 2 hours.

German 11a. German Conversation: A course intended primarily for students who wish to increase their facility in the use of the spoken language. Prerequisite, two years of German. Associate Professor Voss. 2 hours.

German 12b. German Conversation (Continued): The oral treatment by the student of graded themes, together with discussions of assigned topics. Prerequisite, German 11 or equivalent. Associate Professor Voss. 2 hours.

German 14b. Advanced Prose Composition: Translations, original compositions, letter writing. Special stress is laid on word order and proper use of idiomatic expressions. Osthaus and Bierman's Prose Composition. Prerequisites, German 1, 2, 3, 4, and either 5 and 6, or 7 and 8. Associate Professor Voss. 2 hours.

German 20b. Commercial German: A course intended especially for students who wish to acquire some knowledge of the practical language of business. Reading, conversation, composition, chosen with this end in view. This course will be accepted as an equivalent of either German 3 or German 4. Prerequisites, German 1 and 2. Assistant Professor Steitz. 4 hours.

For Undergraduates and Graduates

German 112a. Historical Grammar of the German Language: Introductory lectures upon Germanic philology and a study of the historical changes in the development of modern German. Behagel's Die Deutsche Sprache. Prerequisite, German 1, 2, 3, 4, and either 5 and 6, or 7 and 8. (Given in alternate years. Given in 1917-18.) Associate Professor Voss. 2 hours.

German 113b. Historical Grammar of the German Language: A continuation of German 112. Associate Professor Voss. 2 hours.

German 114a. Middle High German: A study of the phonology and accidence of the Middle High German. Reading of selections from the Nibelungenlied and Gudrun. (Given in alternate years. Given in 1916-17.) Associate Professor Voss. 2 hours.

German 115b. Middle High German: A continuation of German 114. Associate Professor Voss. 2 hours.

German 116a. History of German Literature: From the earliest times to the classical period. A general survey of German literature in its relations to the literatures of other nations and its development in connection with the political history, religious movements, and social conditions of Germany. Lectures, reports, and collateral readings. Prerequisite, three years of German. (Given in alternate years. Given in 1916-17.) Associate Professor Voss. 2 hours.

German 117b. History of German Literature: A continuation of German 116. Associate Professor Voss. 2 hours.

German 118a. History of German Literature: From Lessing to the present time. Representative works will be read in English

translations. Special emphasis will be laid upon the political, social religious, and artistic ideals of the classic and romantic schools. Prerequisite, three years of German. (Given in alternate years. Given in 1917-18.) Associate Professor Voss. 4 hours.

German 119b. History of German Literature: A continuation of German 118. Associate Professor Voss. 2 hours.

German 120a. Gothic: An introductory course, especially for those who intend to study German or English historically, in the study of Gothic and its phonological relations to both earlier Indo-Germanic, and later Germanic languages; the reading of selections from the Gospels and the Epistle to the Corinthians in Wulfila's translation of the Bible. Prerequisites, German 1, 2, 3, 4, and either 5 and 6, or 7 and 8. (Given in alternate years. Given in 1916-17.) Assistant Professor Steitz. 2 hours.

German 121b. Gothic: A continuation of German 120. Assistant Professor Steitz. 2 hours.

German 110a. Phonetics: A study of speech sounds in German and English. Prerequisite, three years of German. Associate Professor Voss. 2 hours.

German 111a. Goethe's Faust: An analytical study, with some consideration of its sources and of other literary treatments of the same theme. Text, Calvin Thomas's edition. Prerequisite, three years of German. (Given in alternate years. Given in 1917-18.) Professor House. 2 hours.

German 123a. Old High German: A study of the phonology and accidence of the oldest German dialects; selections from Tatian and Otfrid's Evangelien Buch as well as the shorter monuments of Old High German literature will be read. Prerequisite, three years of German (Given in alternate years. Given in 1917-18.) Assistant Professor Steitz. 2 hours.

German 124b. Old High German: A continuation of German 123. Assistant Professor Steitz. 2 hours.

Education 135b. Teacher's Course in German: Study and discussion of methods of teaching German in secondary schools, together with an analytic study of texts generally used in the first three years of German in high schools and normal schools. Review of grammar and practice in teaching. Prerequisite, three years' study of German. (Given in alternate years. Given in 1917-18.) Professor House. 2 hours.

GOVERNMENT

Professor Alley, Professor Foster, Associate Professor Floyd, Mr. Dale

The courses in government are designed as an aid to good citizenship and general culture and as a part of the preparation for the public service and the profession of law.

Government 1 is a prerequisite for all other courses in this department. It does not count for major credit.

Primarily for Undergraduates

Government 1. American Government and Politics: A study of the American government, federal, state, local and municipal, together with the forces and influences affecting governmental operation. This is one of the prescribed courses. Professor Alley, Associate Professor Floyd, Mr. Dale. 4 hours.

Government 2. General Political Science: A study of the nature of the state and of the structure and functions of government. Professor Alley. 4 hours.

Government 50a. The Government of Oklahoma: A study of the constitution of Oklahoma, the organization and operation of the government under it, with particular attention to municipal and local government. (Given in alternate years. Given in 1916-17.) Professor Alley. 2 hours.

For Undergraduates and Graduates

Government 100a. Constitutional Law: A study of the federal constitution as interpreted by the courts. Chiefly a discussion of leading cases. Professor Foster. 2 hours.

Government 101b. Comparative Government: A comparative study of the principal governments of Europe. Professor Alley. 4 hours.

Government 102a. International Law: The general principles of the law governing the relations between states—the law of peace, the law of war, and the law of neutrality. Professor Alley. 4 hours.

Government 103b. American Diplomacy: Foreign policy of the United States. Arbitrations, American contributions to international law. Open to students who have taken a course in international law. (Given in alternate years. Given in 1917-18.) Professor Alley. 4 hours.

Government 104a. Administration: The organization, function, and practical working of administrative authorities in the United States, federal, state, and local. Open only to advanced stu-

dents. (Given in alternate years. Given in 1916-17.) Professor Alley. 2 hours.

Government 105b. Municipal Government: A study of modern city governments. Open only to advanced students. Professor Alley. 2 hours.

Government 106b. Party Government: The organization, methods of action, and legal control of political parties in the United States. Open to students who have had Government 2 or 101. Professor Alley. 2 hours.

Primarily for Graduates

Government 200. Problems in Political Science: An introduction to independent investigation. Special problems according to the needs of the student and the material available for use. Private conferences by appointment. Prerequisite, twelve hours credit in this department. Professor Alley. 1 to 3 hours.

GREEK

Professor Paxton

Greek 1, 2, and 3 are to be taken in the order named and are prerequisite for any of the succeeding courses except 10, 11, and 12.

Greek 1, 2, 3, and 11 may not be counted as major work.

Classical Archaeology 1, 3, and 4 must be taken by those who major in Greek, and may be counted as major work in the subject.

Primarily for Undergraduates

Greek 1a. Beginning Course: A careful drill in forms, accents, pronunciation, and elementary translation. Ball's Elements of Greek. 4 hours.

Greek 2b. Beginning Course (Continued): The text-book of Greek 1 will be completed and reviewed in part. Also the first book of the Anabasis. 4 hours.

Greek 3a. Xenophon: Anabasis; three more books read, and reviewed in part. Prose composition once a fortnight, with occasional oral drills. Reading in Grote. Some attention will be given to military antiquities. 4 hours.

Greek 4b. Lysias's Orations: Translation, some study of style, an elementary consideration of Greek legal procedure and of the Athenian constitution. Text, Morgan. 4 hours.

Greek 5a. Homer's Iliad: Translation, scansion, a brief consideration of Homeric antiquities by references. Text, Seymour. 4 hours.

Greek 6b. Herodotus: The Persian Invasions of Greece. Plato's Dialogues may be substituted. 2 hours.

Greek 7a. Thucydides: The Sicilian Expedition. Readings in Grote. 2 hours.

Greek 10a. Greek Literature in English: A study of English translations of representative Greek masterpieces. Prerequisite, English 1 and 2. Text, lectures, and required readings. 2 hours.

Greek 11b. New Testament Greek: A study of the Gospel of St. John. Prerequisite, Greek 1. 2 hours.

Greek 12a. Modern Greek: The modern language will be studied in text-book, newspaper, and by conversation. No knowledge of classical Greek is necessary. 4 hours.

Greek 14a. Greek Drama in English: Lectures and library readings on the rise and development of Greek drama. Reading of plays, with interpretative comments. Not open to freshmen. Recommended by the professor of Greek to the consideration of those majoring in, or intending to major in, English. Professor Paxton. 2 hours.

Greek 15b. Greek Drama in English: Continuation of Greek 14. Prerequisite, Greek 14. Professor Paxton. 2 hours.

Greek 16a. Selections from Greek Literature Other Than Drama: A study in English translation of various Greek authors outside of the field drama, such as Pindar, Theocritus, Thucydides, and others. Professor Paxton. 1 hour.

Greek 17b. Selections from Greek Literature Other Than Drama: A continuation of Greek 16. Professor Paxton. 1 hour.

For Undergraduates and Graduates

Greek 100b. Selections from the Greek Drama. 2 hours.

Greek 101a. Aristophanes: One play will be read somewhat critically, one rapidly, and a third in translation. 2 hours.

HISTOLOGY

Professor Turley

Histology 1b. Normal Histology: A study of the microscopic anatomy of animal tissues and organs; the principles of cytology and splanchnology with special emphasis on the human tissues and organs; and histologic technique. Deposit required. Lectures and laboratory. 4 hours.

Histology 2. Technical Histology: A course of lectures and laboratory work in the methods of fixing, mounting, and staining specimens for histological study, and the use of special stains. The methods of making wax models of organs studied. This course is designed

especially for those who are intending to teach histology, or do research work on the microscopical structure of adult or embryological structures. Prerequisites, Histology 1, or Zoology 1, or Botany 1. 4 hours.

HISTORY

Professor Buchanan, Professor Gittinger, Associate Professor Floyd, Mr. Thoburn, Mr. Dale

History 9 and 10 may not be counted as major work.

Primarily for Undergraduates

Government I. History 1, heretofore listed under history as Institutional History, has been transferred to the department of government as Government 1. (See Government.)

History 9a. Mediaeval Europe: A survey of the period from the beginning of the middle ages to the close of the fifteenth century. Associate Professor Floyd. 4 hours.

History 10b. Modern Europe: The political, social, and institutional history of Europe from the opening of the sixteenth century to the present. Associate Professor Floyd. 4 hours.

History 65a. History of Germany: A careful study of the politics, institutions, development of commerce and industry, and territorial expansion of the present German Empire will be made. Those students of the German language and literature who wish a general knowledge of German history will find this course especially helpful. (Given in alternate years. Given in 1916-17.) Associate Professor Floyd. 2 hours.

History 66b. History of France: The origin and history of the French people, their language, literature, constitutional development, religious wars, revolutions, and modern reforms will be treated in detail. This course is offered not only for special students of history but for those studying the Latin and French languages and literature as well. (Given in alternate years. Given in 1916-17.) Associate Professor Floyd. 2 hours.

For Undergradutes and Graduates

History 151a. Early and Mediaeval England: The first half of a general course in English history. Professor Gittinger. 4 hours.

History 152b. Modern England: The second half of a general course in English history. Professor Gittinger. 4 hours.

History 155a. Political History of the United States: A general survey from the revolutionary era to the presidency of Jackson. Lectures, text-book, and collateral reading. This course should precede all advanced courses in American history. Professor Buchanan. 4 hours.

History 156b. Political History of the United States: A continuation of History 155, beginning with the presidency of Jackson and coming down to the present. Lectures, text-book, and collateral readings. Professor Buchanan. 4 hours.

History 157a. History of the American Colonies: The object of this course is to make a study of the development of the English political, social, and economic principles under American conditions. The work will be based on Thwaite's Colonies, Fisher's Colonial Era, and references to the accessible sources. (Given in alternate years. Given in 1917-18.) Mr. Dale. 4 hours.

History 159a. History of Greece: The oriental nations and Greece through the Persian invasions. The development and spread of Greek civilization to the Roman conquest. Professor Gittinger. 4 hours.

History 160b. History of Rome: A study of Roman origins and the development of Roman character. The growth of Roman power over the Mediterranean world and the foundation of the Empire. The first four centuries of the Christian era. Special attention will be given to the causes of the decay of ancient civilization. Professor Gittinger. 4 hours.

History 167a. The Culture and Civilization of the Renaissance: A course dealing with the rise of Italian humanism and the spread of the Renaissance throughout Europe generally. Special attention will be given to the literature, religion, society, and art of the period. (Given in alternate years. Given in 1917-18.) Prerequisites, History 9 and 10. Associate Professor Floyd. 2 hours.

History 168b. The Era of the Reformation: A survey of the causes, events and consequences of the religious revolutions of the sixteenth century with special attention to the influence of the German reformation on politics and society. Attention will be directed to the political, social, and economic aspects of the time as well as to the religious changes. (Given in alternate years. Given in 1917-18.) Prerequisites, History 9 and 10. Associate Professor Floyd. 2 hours.

History 101a. The French Revolution and Napoleonic Era: Mr. Dale. 4 hours.

History 102b. Recent History of Europe: A careful study of industrial conditions, existing constitutions, and political parties of Europe, including England, since the beginning of the nineteenth century. Lectures and readings. Associate Professor Floyd. 4 hours.

History 105a. Hebrew History: A study of the Hebrew people from the beginnings to the time of Nehemiah. (Given in alternate years. Given in 1916-17.) Professor Gittinger. 2 hours.

History 106a. Territorial Expansion: This is an informal course requiring investigation into the geography of the United States and tracing the successive additions to our territory from the beginning of the government down to the present. Prerequisite, History 155 and 156. Professor Buchanan. 2 hours.

History 108a. The West: A study of the westward movement of population, and the political and economic aspects of the development of the different sections. Lectures and collateral reading. Mr. Dale. 4 hours.

History 109b. History of Oklahoma: This course begins with a brief survey of the history of the district now comprised in Oklahoma under its Spanish and French management, followed by a history of the Louisiana Purchase. The principal aim of the course, however, will be to trace the development of Oklahoma from the settlement of the five civilized tribes of Indians west of the Mississippi, the development of Oklahoma Territory, and the amalgamation of the two territories into one state. Mr. Dale. 4 hours.

History 110b. Civil War and Reconstruction: The history of the United States from 1860 to 1875. Professor Buchanan. 4 hours.

History 158b. Spain in North America: A general survey of the establishment and development of the Spanish colonies in North America with special attention to the territory now within the United States. Professor Gittinger. 4 hours.

History 161b. History of Spain: A general course in Spanish history, from the beginning to modern times. Mr. Dale. 4 hours.

History 169a. Twentieth Century History: The political, social, and institutional history of the chief countries of the Old World and their dependencies since 1900, carefully studied with a view to a better understanding of present conditions. Associate Professor Floyd. 2 hours.

Education 150b. Teacher's Course in History: For teachers of history in high school. Mr. Dale. 2 hours.

Primarily for Graduates

History 209a. Seminary in Southwestern History: A study of selected topics in the history of the Southwest. The student will be required to present the results of his investigations in a series of connected papers. Professor Gittinger. 2 hours.

History 210b. Seminary in Southwestern History: A continuation of the preceding seminary. Professor Gittinger. 2 hours.

History 211b. Seminary in Oklahoma History: A course affording opportunity for investigation in Oklahoma history. Students will be expected to investigate from the sources some topic in the

history of Oklahoma and embody the result in written form. Mr. Dale. 2 hours.

History 212a. Seminary in American History: An intensive study of selected topics in the political and institutional development of the United States. Professor Buchanan. 2 hours.

HYGIENE

Professor Ellison

Primarily for Undergraduates

Hygiene 2b. Principles of Hygiene and Sanitation: A course of lectures and demonstrations with assigned readings, taking up the subjects of ventilation, heating, food, water supplies, sewage, disinfection, contagious diseases, and principles of school hygiene, with methods of control and suppression of epidemics. 4 hours.

ITALIAN

See the Department of Romance Languages.

JOURNALISM

Associate Professor Herbert

Journalism may be counted as the minor by students who major in Group I or in Group III.

Primarily for Undergraduates

Journalism 1a. Newspaper Writing: A course combining a study of the newspaper and its methods with actual practice in the simpler forms of news writing. Survey of the field of journalism; study of the newspaper field; newspaper organization; newspaper terminology; contents of newspapers; news elements; news values; news sources; news gathering; qualifications of a reporter. 4 hours.

Journalism 2b. Newspaper Writing: Continuation of Journalism 1. Structure and style of the news story; the English of the newspaper; kinds of reporting: fire, accident, and disaster stories; obituaries; police, court, and political reporting; reports of speeches, meetings, conventions, and legislatures; railroad, market, and commercial reporting; sporting news; educational, religious, and civic news; social, musical, and dramatic reporting; interviewing; feature writing; human interest stories; the work of the correspondent. Prerequisite, Journalism 1. 4 hours.

Journalism 3a. Newspaper Editing: A course dealing with the presentation of news and the technique of newspaper practice. Rewrites and follow-up stories; newspaper office style; copy reading; mechanics of printing; technique of typesetting; proof reading; prin-

ciples and practice of head writing; telegraph news gathering; telegraph news editing. Prerequisites, Journalism 1 and 2, or equivalent experience. 4 hours.

Journalism 4b. Newspaper Editing: Continuation of Journalism 3. Contents of newspapers; relative space and position of news; advertising and news; newspaper typography; make-up; the first page; the editorial page; feature material; lay-outs; illustrations; cuts and matrices; morgue and library; newspaper editions; make-over; extras; emergency make-up; news contingencies; handling big stories; duties and problems of editorial executives; the Sunday edition; special editions. Prerequisite, Journalism 3. 4 hours.

Journalism 50a. Principles of Advertising: A study of the science of advertising from the standpoint of its relation to the commercial world; relation of advertising to the distribution and marketing of goods; psychological principles underlying advertising; study of the distinguishing characteristics of good advertising. 2 hours.

Journalism 51b. Practice of Advertising: Continuation of Journalism 50. Consideration of the different kinds of advertising matter; special forms of publicity; advertising media; methods of preparing, presenting, and testing the efficiency of advertisements of various kinds. Prerequisite, Journalism 50. 2 hours.

Journalism 54a. Technique of Advertising: An application of the psychological and economic principles of advertising to specific problems in the field of business publicity. Emphasis is placed in this course on familiarity with the details of advertisement construction, such as the lay-out, typographical display, and the use of illustration and ornament. Prerequisite, Journalism 50 and 51. 2 hours.

Journalism 55b. Technique of Advertising: Continuation of Journalism 54. A further consideration of practical problems in advertising, including a correlation of all previous work in the formulation of comprehensive plans for advertising campaigns of various kinds. Particular attention is paid to the problems of retail advertising. Prerequisite, Journalism 54. 2 hours.

For Undergraduates and Graduates

Journalism 100a. News Feature Writing: A course dealing with the presentation of news in the form of feature stories. The feature story as a special form of news writing; its distinguishing characteristics, variety of subject matter, originality of treatment; feature stories not based directly on news events, for publication in Sunday newspapers and magazines. Prerequisites, Journalism 1 and 2, or equivalent experience. 2 hours.

Journalism 101b. Editorial Writing: A course combining a study of the component parts of the editorial page with practice in the various forms of editorial writing. Study of editorial pages in typical American newspapers; cartoons; humorous columns; newspaper verse; syndicated features; press comment; editorial paragraphs; editorial articles; practice in the interpretation of the news and in the molding of public opinion through the paragraph and the editorial. Prerequisites, Journalism 1 and 2, or equivalent experience. 2 hours.

Journalism 102a. History of Journalism: A course dealing with the historical development of journalism, with special emphasis on its evolution in America. Particular attention is given to the development of those tendencies which characterize modern journalism; America's great journalists; their influence upon the profession. Open only to juniors and seniors. (Given in alternate years. Given in 1916-17.) 2 hours.

Journalism 104b. Comparative Journalism: A study of the various types of American newspapers and a comparison of American newspaper standards with those of foreign countries. Intensive study of the elements which go to make up newspaper individuality—typographical appearance, stress upon certain classes of news, style of writing and presenting news and editorial matter. Open only to juniors and seniors. (Given in alternate years. Given in 1916-17.) 2 hours.

Journalism 105a. General Information and Reference: A course dealing with branches of knowledge directly related to the publication of news, including a study of miscellaneous exoteric facts essential to the educational equipment of newspaper workers, together with the means of discovering those facts through books of reference. Prerequisite, the consent of the instructor. (Given in alternate years. Given in 1917-18.) 2 hours.

Journalism 115b. Ethics and Laws of the Press: A course dealing with the social and legal restraints upon the press; social status of the newspaper; liberty of the press; ethical problems in news gathering, news presentation, editorial comity, and business management; ethics of advertising; laws relating to libel, questionable advertising, postal privileges and copyright. Prerequisite, the consent of the instructor. (Given in alternate years. Given in 1917-18.) 2 hours.

Journalism 140a. Special Problems in Journalism: To students properly qualified opportunity will be given each year for obtaining exprience in the editorial and business management of publications. For 1916-17 positions on the staff of the University of Oklahoma Magazine will be available for experience of this character. Amount

of credit and hours of work will be arranged. Open only to students especially qualified. Students desiring to take this course should consult the instructor. Credit varies.

Journalism 141b. Special Problems in Journalism: A continuation of Journalism 140. Conducted in the same manner as the first semester course. Credit varies.

Journalism 150a. Newspaper Advertising: A study of advertising from the standpoint of the newspaper publisher as distinct from that of the merchant or manufacturer. Essential characteristics of newspaper advertising; relations of the newspaper to its advertisers; stimulation of advertising through solicitation and other means; practical applications of the ideal of good service. Prerequisites, Journalism 50 and 51. 2 hours.

Journalism 151b. Newspaper Circulation: A study of circulation methods and management, with emphasis upon the elimination of unbusinesslike practices in newspaper distribution. Principles of circulation management; factors affecting circulation; departmental organization; city and rural circulation: methods of stimulating circulation; subscriptions; delivery; collections; records; accounting; postal regulations. Prerequisite, junior or senior standing. 2 hours.

LATIN

Professor Sturgis, Mr. Heath, Mr. Moseley

Latin 1, 3, and 4 are open to freshmen who have had Caesar. If other courses are desired out of their natural order as here given, the instructor in charge should be consulted.

Latin 1 and 2 may not be counted as major work.

Primarily for Undergraduates

Latin 1a. Cicero: Six orations of Cicero, with special attention to syntax. 4 hours.

Latin 2b. Vergil: Six books of the Æneid. Some attention, will be given to the subject of meter; but the chief aim will be idiomatic translation with a view to gaining an appreciation of the writer and an understanding of Vergil's place in literature. 4 hours.

Latin 3a. Latin Selections: Selections from representative Latin writers will be translated by the instructor. Members of the class will be asked to write out these translations in good English. The course will be found helpful to students of Latin who wish to get a survey of Latin literature as a whole, and to students of English composition who find themselves unable to write clear and coherent sentences. 2 hours.

Latin 4a. Selections from Ovid and Sallust: Gleason's A Term of Ovid and Herbermann's Bellum Catilinae will be used. Study of verse and mythology, practice in reading at sight short extracts of poetry (elegiac) and prose. 4 hours.

Latin 5b. Livy: Melhuish, Books XXI, XXII, or selections from I XXI, XXII. Readings in Mommsen. Elementary study of Roman military organizations. Studies in the style of Livy. 4 hours.

Latin 7a. Cicero's Essays: Two or more, with a study of sources and the author's philosophic style. Comparisons of modern essays on like subjects. 4 hours.

Latin 8b. Latin Literature in English: A study of masterpieces of Latin literature translated into English. Lectures, readings, and informal discussions. Prerequisite, English 1 and 2. 2 hours.

Latin 9b. Latin Writing: Composition work in this course is based on the orations of Cicero against Catiline. The course will be found helpful to students preparing to take the Rhodes Scholarship examination, to those intending to teach Latin, and to others who may desire a thorough drill in Latin syntax. Prerequisite, Latin 1. 2 hours.

For Undergraduates and Graduates

Latin 100b. Horace's Odes and Epodes: Smith. Study of meters. Reading of essays and monographs on Horace. The Satires and Epistles will occasionally be read instead of the Odes and Epodes. In that case a few of Juvenal's Satires will be read in addition. Papers on suggested subjects will be required. 4 hours.

Latin 101a. Plautus and Terence: Two plays will be read. Attention will be given to the history of Latin grammar and to the origin and development of the Latin drama. Prerequisites, Latin 4, 5, 7, and 100, or their equivalent. 4 hours.

Latin 102b. Tacitus: The Germania and Agricola, or extracts from the Annales, will be read. Attention will be given to disputed readings and to work in the history of Rome. Prerequisites, Latin 4, 5, 7, and 100, or their equivalent. 4 hours.

Latin 103a. Advanced Latin Writing: The first half of the semester will be devoted to a general review of Latin composition. The second half will be given to the study of the main differences between English and Latin, as regards idiom and style. 2 hours

Latin 104b. Lucretius: Selected portions of the De Rerum Natura will be read. Special attention will be given to the philosophy of Epicurus. The student will also be required to do some work in textual criticism. Open only to those who have had five years of Latin. 4 hours.

Education 132b. Teacher's Course in Latin: Methods of teaching Latin; more difficult portions of third and fourth-year Latin translated; syntax. 2 hours.

MATHEMATICS

Professor Reaves, Associate Professor Duval, Assistant Professor Gossard, Mr. Meacham

Mathematics 1 and 2 are required for admission to the College of Engineering and should preferably be taken in the high school. Students who select mathematics either as prescribed freshman work or to satisfy the requirements of Group II, are advised to take Mathematics 5 and 9, if they are prepared to do so; otherwise to take Mathematics 2 and 9.

Mathematics 1, 2, 5, and 9 may not be counted as major work.

Primarily for Undergraduates

Mathematics 1b. Solid Geometry: A brief review of portions of plane geometry followed by the usual propositions leading to the mensuration of solids. Prerequisite, one year of plane geometry. Assistant Professor Gossard. 2 hours.

Mathematics 2a. Algebra: A careful review of the fundamental principles followed by a study of exponents and radicals, theory of quadratics, graphs, systems of equations, complex numbers, ratio and proportion, progressions, logarithms, binomial theorem. Prerequisite, one year of algebra and one year of plane geometry. Assistant Professor Gossard. 4 hours.

Mathematics 5. College Algebra: Embracing the subjects of imaginaries, variables and limits, permutations and combinations, binomial theorem, series, undetermined coefficients, logarithms, determinants, and theory of equations. This course presupposes a minimum of one and one-half years in algebra. Eight sections first semester and one section second semester. Professor Reaves, Associate Professor Duval, Assistant Professor Gossard, Mr. Meacham. 4 hours.

Mathematics 9. Trigonometry: Derivation and use of formulas, solution of triangles, trigonometric equations and identities, graphs of functions, computations of logarithms, DeMoivre's theorem. Prerequisite, Mathematics 2 or 5. One section first semester and six sections second semester. Professor Reaves, Associate Professor Duval, Assistant Professor Gossard, Mr. Meacham. 4 hours.

Mathematics 14. Analytic Geometry: Equations and their loci; transformation of co-ordinates; the straight line, circle, and other conic sections; general equation of the second degree; introduction to

solid geometry. Prerequisite, trigonometry. Two sections each semester. Professor Reaves, Associate Professor Duval, Mr. Meacham. 4 hours.

For Undergraduates and Graduates

Mathematics 117. Calculus: Course in differential and integral calculus. Prerequisite, Mathematics 14. One section, first semester. Assistant Professor Gossard. One section, second semester. Professor Reaves. 4 hours.

Mathematics 118. Calculus: A continuation of Mathematics 117 with numerous applications to practical problems. Prerequisite. Mathematics 117. One section first semester. Associate Professor Duval. One section second semester. Assistant Professor Gossard. 4 hours.

Mathematics 122b. Differential Equations: Ordinary and partial differential equations with applications to geometry, physics, and mechanics. Prerequisite, Mathematics 118. (Given in alternate years. Given in 1916-17.) Professor Reaves. 3 hours.

Mathematics 125b. Determinants and Theory of Equations: Prerequisite, Mathematics 14. Professor Reaves. 4 hours.

Mathematics 126b. Projective Geometry: Projective forms and relations, the principle of duality, anharmonic properties, involution, conics, problems and constructions. Text, Cremona. Prerequisite, Mathematics 117. (Given in alternate years. Given in 1916-17.) Associate Professor Duval. 4 hours.

Mathematics 131a. Advanced Calculus: A course based on Wilson's Advanced Calculus. Prerequisite, Mathematics 118. (Given in alternate years. Given in 1917-18.) Professor Reaves. 4 hours.

Mathematics 135b. Solid Analytic Geometry: Prerequisite, Mathematics 14. (Given in alternate years. Given in 1917-18.) Associate Professor Duval. 2 hours.

Mathematics 136a. Modern Analytic Geometry: Homogeneous co-ordinates, anharmonic ratio, curves of the second order and second class, poles and polars, Pascal and Brianchon theorems. Prerequisite, Mathematics 117. (Given in alternate years. Given in 1916-17.) Professor Reaves. 4 hours.

Mathematics 137a. Theory of Functions of a Complex Variable; Prerequisite, Mathematics 131. (Given in alternate years. Given in 1917-18.) Assistant Professor Gossard. 4 hours.

Mathematics 138b. Higher Algebra: Fundamental properties of polynomials; theory of linear dependence; linear transformations and combinations of matrices; invariants, bilinear forms. Prerequisites, Mathematics 117 and 125. Text, Bocher's Introduction to Higher Al-

gebra. (Given in alternate years. Given in 1917-18.) Associate Professor Duval. 4 hours.

Mathematics 141a. Mathematical Seminary: The purpose of this course is to encourage junior, senior, and graduate students in general mathematical reading of a somewhat advanced nature. The subject matter will vary from year to year, but will include some such subjects as the following: theory of numbers, higher plane curves, differential geometry. At hours to be arranged. Professor Reaves, Associate Professor Duval, Assistant Professor Gossard. 4 hours.

Education 133b. The Teaching of Secondary Mathematics: A course which includes the study of methods of presenting algebra and geometry, especially the more difficult topics; the fundamental aims in the teaching of these subjects; and methods whereby the interest of the pupil in these subjects is stimulated. Open to those who have had experience in teaching algebra and geometry, and prospective teachers who have completed college algebra. Assistant Professor Gossard. 2 hours.

PATHOLOGY

Professor Turley, Assistant Professor Sorgatz

The work in this department is designed to meet four requirements: general culture, preparation for research, a more detailed knowledge of certain important organisms than is given in the biological courses, and a training in the essentials for the practice of medicine. The courses are open to all students of college rank on the approval of the instructor in charge.

Pathology 1 is required of all students of medicine.

Pathology may be combined with bacteriology for a major.

Primarily for Undergraduates

Pathology 1b. General Pathology: A study of the abnormal functioning of the various organs of the body, the conditions producing disease, the efforts of the body to overcome disease and regenerate diseased tissues, disturbances in development, circulatory disturbances, retrogressive processes, progressive processes, inflammation, and secondary diseases. This course is the basis of advanced special, clinical, and diagnostic pathology. Lectures, recitations, and demonstrations showing gross and microscopic lesions in the human tissues. Prerequisite, Histology 1. Texts, Ziegler, and Mallory and Wright. Professor Turley. 4 hours.

For Undergraduates and Graduates

Pathology 101. Special Pathology: A course of lectures

and demonstrations with anatomical material illustrating the pathological processes of the several organs. Prerequisite, Bacteriology 1 and Pathology 1. 4 hours.

Pathology 102a. Research Pathology: The student will pursue a definite line of research on a subject of pathology selected after consultation with the instructor in charge. This course is open to all students of the university who have the necessary prerequisites, and is designed especially for those who take major work in pathology. Laboratory, conferences, assigned readings, and reports. Deposit required. Prerequisite, Pathology 1. 4 hours.

Pathology 103b. Research Pathology: A continuation of Pathology 102. Deposit required. 4 hours.

PHILOSOPHY AND PSYCHOLOGY

Professor Phelan, Assistant Professor Brooks

Philosophy 1 or 51 is a prerequisite to all courses in psychology and education.

Philosophy 1 and 51, and Education 2 may not be counted as major work.

Primarily for Undergraduates

Philosophy 1a. Elements of Psychology: This is an introductory course aiming to give the student a survey of the principles of psychology, either as a part of a liberal education or as a preparation for professional study in medicine, law, etc. The following topics will be treated: sensation, attention, habits, association of ideas, perception, memory, imagination, reasoning, instinct, feeling, emotion, volition, and personality. Lectures, recitations, assigned readings, reports, and experimental work. Pillsbury's Essentials of Psychology. Students of maturity, graduates of normal schools and teacher training departments, and those having experience in teaching, should take Philosophy 51 instead of Philosophy 1. Assistant Professor Brooks. 4 hours.

Education 2b. Educational Psychology: (See Education.) Professor Phelan. 4 hours.

Philosophy 3b. Logic and Scientific Method: An introductory study of real and formal logic, including methods of study, principles of argumentation, proof, and inference. Induction, deduction, fallacies, methods of statistics, probability. This course aims to give the student knowledge of the elements of the study and of scientifically exact methods of reasoning, and practice in using them. Texts, Dewey, How We Think ,and Jones, Logic—Inductive and Deductive. Assistant Professor Brooks. 4 hours.

Philosophy 4a. Introduction to Philosophy: An outline study of the field of philosophical discussion, with an indication of its chief problems and methods of investigation. This course is open to students who have completed Philosophy 3 or who have at least one year of university work. Fullerton's Introduction to Philosophy. Assistant Professor Brooks. 4 hours.

Philosophy 51a. General Psychology: This is an advanced course considering the aims and methods of psychology, the facts, laws and functions of mental life. Students who are assigned to Philosophy 1 are not required to take this course. Titchener's Text-book in Psychology Professor Phelan. 4 hours.

For Undergraduates and Graduates

Philosophy 101b. Experimental Psychology: Introductory course. Psychophysical methods, analysis of sensation, reaction, and study of the common senses. Lectures and work in the laboratory. (Given in alternate years. Given in 1916-17). Professor Phelan. 4 hours.

Philosophy 102b. Experimental Psychology: Special senses; space perception and illusions; higher intellectual process. Lectures and work in the laboratory. (Given in alternate years. Given in 1917-18.) Professor Phelan. 4 hours.

Philosophy 103a. Comparative Psychology: This course is designed to present the facts of animal life from the standpoint of behavior. Watson's Behavior will be used as a text-book. Yerkes, The Dancing Mouse; Jennings, Lower Organisms; Watson's Animal Education; Washburn's Animal Mind; and recent monograph literature will serve as guides in the laboratory work. A specific investigation will be assigned each pupil and results must be incorporated in a term report. (Given in alternate years. Given in 1916-17.) Professor Phelan. 2 hours.

Philosophy 104a. Genetic Psychology: This course considers the general field of genetic psychology including origins, course, and factors of mental development in the race and in the individual. Lectures, readings, reports, and a thesis. (Given in alternate years. Given in 1917-18.) Professor Phelan. 2 hours.

Philosophy 105b. Abnormal Psychology: A general survey of the laws of abnormal mental phenomena. A study of such psychoses as throw light on the general and genetic problems of psychology. Disorders of sensation, memory association, emotion, and volition, order of failure of mental functions; a statement of heredity. Lectures, readings, and a thesis. (Given in alternate years. Given in 1916-17.) Professor Phelan. 2 hours.

Philosophy 106a. Social and Applied Psychology: A study

of the psychic factors and forces behind material and social progress. The psychology of achievement, the trained memory, the nature of judgment and inference with relation to everyday life, initiative, personality, mind mastery, and the technique of success. The practical application of psychology to business, industry, engineering, medicine, theology, and law. Lectures, readings, reports, and thesis. (Given in alternate years. Given in 1916-17.) Professor Phelan. 2 hours.

Philosophy 107b. History of Psychology: A general survey of the development of psychology in ancient, medieval, and modern thought. Aristotle, St. Augustine, Aquinas, Descartes, Locke, Kant, Lotze, and Wundt will be studied intensively as representatives of distinct periods. Dessoir's History of Psychology. (Given in alternate years. Given in 1917-18.) Professor Phelan. 2 hours.

Philosophy 108a. The Psychology of Religion: The more important phenomena of religion are studied from the psychological point of view, such as the development of religion in the individual, belief, conversion, revivals, prayer, mysticism, etc. Lectures, assigned reading, and original research by the students. Senior and junior elective course. (Given in alternate years. Given in 1917-18.) Professor Phelan. 2 hours.

Philosophy 109b. Esthetics: A study of the more important esthetic theories from Plato to the present time, together with some experimental investigation of the psychological principles of esthetics, and reconstructive study of the theory of art, including the sense of beauty and the art impulse. Gordon's Esthetics. Assistant Professor Brooks. 2 hours.

Philosophy 110b. History of Philosophy: A general survey of philosophic speculation from its beginnings among the Greeks to the present time. Special attention will be given to the Greek philosophy through Aristotle, and to the modern period from Descartes to Hegel. The characteristic features of each philosophical system, with its place and influence in the progress of human thought, will be shown. Collateral readings, lectures, recitations, and a thesis. Thilly's History of Philosophy. Prerequisites, Philosophy 1 and Philosophy 4, or equivalents. Assistant Professor Brooks. 4 hours.

Philosophy 112a. Theoretical Ethics: A critical study of the chief ethical and an evolution of the fundamental ethical doctrines with a view to the construction of a tenable theory of conduct. A course intended to aid in mastering fundamental problems of life and character. Seth's Ethical Principles, readings, class discussions, and lectures. (Given in alternate years. Given in 1917-18.) Assistant Professor Brooks. 2 hours.

Philosophy 113a. Practical Ethics, or Problems of Conduct in the Economic and Social Life of Today: A study of problems of personal morality, health and efficiency, self-control, happiness, etc., and of problems of public morality, patriotism and world-peace, political purity and efficiency, liberty and law, industrial wrongs and industrial reconstruction, questions of social reform, the future of the race, etc., will follow a brief study of the evolution of morality and of the theory of morality. Drake's Problems of Conduct, lectures, readings, and class discussions. (Given in alternate years. Given in 1916-17.) Assistant Professor Brooks. 2 hours.

Philosophy 114b. Advanced Logic and Theory of Knowledge: The nature and the validity of thought, the theory of inference, the validity of knowledge, scientific induction and deduction, theory of judgment, the nature of hypothesis, valuation and purpose in their logical aspects, knowledge and belief, etc. Prerequisite, Philosophy 3, or Philosophy 4, or equivalents. (Given in alternate years. Given in 1916-17.) Assistant Professor Brooks. 2 hours.

Philosophy 115b. Metaphysics: An advanced course, dealing with the fundamental problems relating to the nature and connections of reality; individuality, purpose, chance, potentiality, idealism, realism, radical empiricism, etc. Prerequisites, Philosophy 4 and Philosophy 110, or equivalents. (Given in alternate years. Given in 1917-18.) Assistant Professor Brooks. 2 hours.

Philosophy 116b. Physiological Psychology: This is a study of the general relation of mind and body, the physiology and psychology of the brain, spinal cord and sense organs; the phenomena of volition, impulse, inherited and acquired habit, emotions and attention, and the brain as a center of mental activity. Professor Phelan. 2 hours.

Philosophy 117a. Apologetics: This is a course in the evidences of Christianity, a study of those fundamental facts, arguments, and principles of the Christian religion which are best suited for the day in which we live to meet current objections and criticisms and to prove Christianity to be divine. Assistant Professor Brooks. 2 hours.

Primarily for Graduates

Philosophy 201a. Seminary in Psychology: A critical study of some specific problem of psychology, such as the investigation of the emotions or advanced work in comparative psychology with laboratory investigation on the psychology of learning. Professor Phelan. 1 or 2 hours.

Philosophy 202b. Problems in Philosophy: A seminary course of research in the historical and critical problems of philosophy.

This course will introduce the problems of contemporary metaphysics. Assistant Professor Brooks. 1 or 2 hours.

Philosophy 203b. Psychological Clinic: A clinical study of mentally deficient children with opportunity for observation, examination and diagnosis in city schools and state asylum for the insane. This clinic serves as a clearing house in Oklahoma for the mental and physical examination of exceptional children. Open to seniors by permission. Professor Phelan. 1 to 2 hours,

PHYSICAL EDUCATION

Professor Soutar, Assistant Professor Owen, Miss Revell

All students entering the university are required to take physical education during the first year. This does not apply, however, to students who enter with at least one year's work of college rank, accepted in full by the university. For a sufficient reason, such as physical inability to do the required work, or self-support (in special cases only), the faculty may excuse a student from complying with this requirement in whole or in part. While engaged in systematic participation in athletic sports under the direction of the professor of physical education or the coach, students may be excused from the class work in physical education. To secure credit they must enroll for Physical Education 1, 2, 7, or 8.

The teachers' courses in physical education, namely, Physical Education 141, 142, 143, and 144 may not count toward the twenty-four hours in education required in the School of Education for a teacher's certificate, but may count as free electives toward a degree.

Courses for Men

Physical Education 1a: Consists of a definite "day's order" of exercises, supplemented by light apparatus work and indoor and outdoor games. Required of freshmen. Professor Soutar. 1 hour.

Physical Education 2b. A continuation of Physical Education 1. Required of freshmen. Professor Soutar. 1 hour.

Physical Education 3a. Heavy Apparatus Work: Elective for sophomores in the College of Arts and Sciences, or for those students who are particularly adapted to the work; may be taken by special permission of the director. Professor Soutar. 1 hour.

Physical Education 4b. A continuation of Physical Education 3. Professor Soutar. 1 hour.

Physical Education 9a. Corrective and Medical Gymnastics: Open to students physically incapable of taking Physical Education 1 and 2. Elective for all students in the College of Arts and Sciences. Professor Soutar. 1 hour.

Physical Education 10b. A continuation of Physical Education 9. Professor Soutar. 1 hour.

Physical Education 7a. Athletics: Football, basketball, cross-country, gymnastics, and tennis. Elective for students who are physically competent. Assistant Professor Owen, Professor Soutar. 1 hour.

Physical Education 8b. A continuation of Physical Education 7. Basketball, gymnastics, tennis, baseball, and track. Elective for students who are physically competent. Assistant Professor Owen, Professor Soutar. 1 hour.

Education 141a. Teacher's Course in Physical Education: Designed for the purpose of training teachers of athletics and gymnastics. Lectures and practice are given in football, basketball, apparatus work, and organization and management of gymnastic classes. Prerequisites, Physical Education 1 and 2, and two years of college work. Students who are particularly adapted to the work may enter the class by special permission of the director. Professor Soutar. 4 hours.

Education 142b. A continuation of Physical Education 141. Takes up in addition baseball, track, and physical measurements, some corrective gymnastics, and playground organization and management. Professor Soutar. 4 hours.

Courses for Woman

Physical Education 51a. Consists of tactics, calisthenics, light apparatus work, games, and folk dances. Required of freshmen. Miss Revell. 1 hour.

Physical Education 52b. A continuation of Physical Education 51. Required of freshmen. Miss Revell. 1 hour.

Physical Education 53a. Tactics, calisthenics, heavy apparatus work, games, esthetic dancing. Elective for students who have completed Physical Education 51 and 52. Miss Revell. 1 hour.

Physical Education 54b. A continuation of Physical Education 53. Miss Revell. 1 hour.

Physical Education 57a. Corrective and Medical Gymnastics: Open to students physically incapable of taking Physical Education 51 and 52. Elective. Miss Revell. 1 hour.

Physical Education 58b. A continuation of Physical Education 55. Miss Revell. 1 hour.

Physical Education 59a. Fencing: Elective. Open to students who have completed Physical Education 51 and 52, or by special permission of the director. Miss Revell. 1 hour.

Physical Education 60b. Folk Dancing: Elective. Open to students of both sexes. Miss Revell. No credit.

Education 143a. Teacher's Course in Physical Education: Designed for the purpose of training teachers of athletics and gymnastics. Lectures are given with practice in tennis, hockey, basketball, gymnastic organization and management, games and dancing. Prerequisites, Physical Education 51 and 52, and two years of college work. Students who are particularly adapted to the work may enter the class by special permission of the director. Miss Revell. 4 hours.

Education 144b. Teacher's Course in Physical Education: A continuation of Physical Education 143. Takes up in addition baseball, track, physical measurements, some corrective gymnastics, and playground organization and management. Miss Revell and Professor Soutar. 4 hours.

PHYSICS

Professor Haseman, Assistant Professor Rapp, Miss Maloy

The work of the department of physics is planned to meet the needs of four classes of students:

(1) Students who desire a general knowledge of phenomena and fundamental principles of physics.

Courses 1, 2, 10, 61, and such other courses as students are prepared to enter are recommended.

(2) Students who desire in addition to a general knowledge a rigid treatment of those principles of physics which are essential to the engineering sciences.

Courses 51, 52, and such other courses as students are prepared to enter are recommended.

(3) Students who desire to select physics as a minor study.

Courses 1, 2, 10, 65, 100, and 109 are recommended. Courses 51 and 52 may be substituted for courses 1, 2, and 10, and equivalent hours from courses 102 to 107, for course 109.

(4) Students who desire to select physics as a major study.

Courses 51, 52, 65, 100, 102, 103, 104, 105, 106, 107, and 109 are recommended. Courses 1, 2, and 10 may be substituted for courses 51 and 52.

The department will in general recommend, as qualified to teach physics in a high school, only those students who have successfully completed the equivalent of the work recommended for the major or minor study and Education 146.

Courses 1, 2, and 61 are open to all students.

Course 10 is open to students who have completed Physics 1, 2, and trigonometry.

Courses 51 and 52 are open to students who have completed trigonometry.

Course 65 is open to students who have completed Physics 1 and 2, or 51 and 52.

Primarily for Undergraduates

Physics 1a. General Physics: Mechanics, sound, heat. Lectures, recitations, laboratory, and assigned readings. A beginning course in college physics. Professor Haseman and Miss Maloy. 4 hours.

Physics 2b. General Physics: Electricity, magnetism, light. Lectures, recitations, laboratory, and assigned readings. A beginning course in college physics. Professor Haseman and Miss Maloy. 4 hours.

Physics 10a. Problems: A problem course in general physics. Miss Maloy. 2 hours.

Physics 51a. Mechanics, Sound, Heat: Lectures, recitations, laboratory, and assigned readings. Assistant Professor Rapp. 5 hours.

Physics 52b. Electricity, Magnetism, Light: Lectures, recitations, laboratory, and assigned readings. Assistant Professor Rapp. 5 hours.

Physics 61a. Household Physics: Lectures, recitations, laboratory, and assigned readings. A practical course designed to give a general knowledge of those phases of physics which enter into the physical problems and appliances of the home. Special attention is given to such household systems and appliances as: water supply, plumbing, heating, ventilating, refrigerating, lighting, bread mixer, ice cream freezer, meat cutter, water meter, vacuum cleaner, water pumps, fire extinguisher, gas meter, fireless cooker, thermos bottle, electric iron, electric heater, door bell, motor, telephone, electric meters, lamps, spectacles, telescopes, projection lantern, camera, wind instruments, stringed instruments, phonograph. The laboratory work consists of practical measurements and tests relating to household work. Miss Maloy. 3 hours.

Physics 65b. Practical Photography: Lectures, assigned readings and laboratory practice. A brief study of the camera and its accessories. Exposing, developing, fixing, printing, enlarging, reducing, lantern slide work, etc. Miss Maloy. 2 hours.

For Undergraduates and Graduates

Courses 100 to 107, inclusive, are open to students who have completed either courses 1, 2, and 10, or 51, 52, and Mathematics 118.

Course 109 is open to students who have completed either courses 1 and 2, or 51 and 52, and Trigonometry.

Physics 100b. Advanced Physics: Lectures, recitations and assigned readings. A study of those fundamental principles of mechanics essential to theoretical physics. Professor Haseman, 2 hours.

Physics 102a. Heat: Lectures. recitations and assigned repeings. A study of the theory of heat and its phenomena, including an introduction to elementary thermodynamics. Assistant Professor Rapp. 2 hours.

Physics 103a. Heat: A laboratory course including measurements of the mechanical equivalent of heat, the pressure coefficient of gases, specific heats of gases at constant pressure, temperatures by means of the thermopile and the platinum thermometer, etc. Must be accompanied or preceded by Physics 102. Assistant Professor Rapp. 1 hour.

Physics 104a. Electricity and Magnetism: Lectures, recitations, and assigned readings. The general theory of potential, lines and tubes of force, fields of force, and influence of media as applied to electrostatics and magnetism. A study of the electric current with the theory of electromagnetism and electromagnetic apparatus. Professor Haseman. 4 hours.

Physics 105a. Electricity and Magnetism: A laboratory course including experiments on the accurate measurement of current, electromotive force, resistance, capacity, induction, hysteresis loss, calibration of electrical instruments, etc. Must be accompanied or preceded by Physics 104. Professor Haseman. 1 hour.

Physics 106b. Light: Lectures, recitations. and assigned readings. A study of geometrical and physical optics. This course will include the theory and applications of lenses and mirrors, together with the application of the wave theory to diffraction, dispersion, interference, polarization, etc. Assistant Professor Rapp. 2 hours.

Physics 107b. Light: A laboratory course including experiments on refraction; interference with bi-prism, grating and interferometer; spectrum analysis with spectroscope; polarization with polarimeter; etc. Must be accompanied or preceded by Physics 106. Assistant Professor Rapp. 1 hour.

Physics 109. Advanced Laboratory: An advanced course in laboratory physics. Professor Haseman and Assistant Professor Rapp Credit to be arranged.

Education 146b. Teacher's Course in Physics: Lectures on the history of physics and the practical problems of a teacher of high school physics. The following problems will be discussed: The subject matter for class room and laboratory practice, the method of presentation best suited to an elementary course, text-books and library reference books, the selection and purchase of apparatus and general supplies, the care of apparatus, the arrangement and permanent equipment of the class room and laboratory, the work of the teacher, the work of the pupil, etc. Members of the class will review

the essential principles of elementary physics and make written reports on assigned topics. Prerequisite, Physics 1 and 2, or 51 and 52. Professor Haseman. 2 hours.

Primarily for Graduates

Physics 200. Research Laboratory: Open to undergraduates only by permission of the head of the department. Professor Haseman and Assistant Professor Rapp. 2 to 5 hours.

Physics 210a. Theoretical Physics: Open to undergraduates only by permission of the head of the department. Professor Haseman. 2 hours.

Physics 211b. Theoretical Physics: Dynamics. A continuation of Physics 210. Open to undergraduates only by permission of the head of the department. Professor Haseman. 2 hours.

Physics 220a. Theoretical Physics; The kinetic theory of matter. Open to undergraduates only by permission of the head of the department. Assistant Professor Rapp. 2 hours.

Physics 221b. Theoretical Physics: The kinetic theory of matter. A continuation of Physics 220. Open to undergraduates only by permission of the head of the department. Assistant Professor Rapp. 2 hours.

PHYSIOLOGY

Professor Nice

Physiology 1 is not accepted for major work.

Primarily for Undergraduates

Physiology 1a. Elementary Physiology: A general course in physiology dealing with the various organs and tissues of the body. This course is planned especially for Arts and Sciences students who desire a general knowledge of the subject. Lectures, laboratory, demonstrations, and recitations. Deposit required. 4 hours.

Physiology 6a. General Physiology: A study of the functions of muscles, nerves, the central nervous system, and the special senses. Three lectures and two laboratory periods of three hours each per week; also eight special demonstrations of which the following are examples: motor localization in the cerebral cortex, the activity of a decerebrate pigeon and the activity of a spinal mammal. Deposit required. 5 hours.

Physiology 7b. General Physiology: A study of the circulatory system, lymphatic system, body fluids and their regulation, digestive system, digestion, absorption, secretion, excretion, metabolism respiration, animal heat and its regulation. Three lectures and two laboratory periods of three hours each per week; also more than

twenty special demonstrations of which the following are types: the function of the depressor nerve, the action of secretin and enterokinase, absorption from liver lymph channels. Deposit required. 5 hours.

For Undergraduates and Graduates

Physiology 101a. Advanced Physiology: This course is planned for graduate students and other properly qualified persons who wish to do advanced work or specialize in physiology. Each student is required to read classical papers in physiology and carry on an investigation under the direction of the instructor in charge. Prerequisite, Physiology 6 and 7 or their equivalent. 2 or 4 hours.

Physiology 102b. Advanced Physiology: This course is a continuation of Physiology 101. 2 or 4 hours.

PUBLIC SPEAKING

Assistant Professor Tanner, Mr. L. Q. Campbell, Miss Anderson

Public Speaking 1 and 2 are prerequisites for all other courses in public speaking.

Public Speaking 1 may not be counted as major work.

English 5 (Argumentation) may count as major credit in public speaking.

For courses in public speaking not credited in the College of Arts and Sciences, see "School of Fine Arts."

Primarily for Undergraduates

Public Speaking 1a. General Preparation: Correct breathing, refined pronunciation, distinct articulation. The principles of gesture, pitch, inflection, tone-color, and emphasis. Two sections. 2 hours.

Public Speaking 2b. General Preparation: A continuation of Public Speaking 1, together with oratorical delivery. Two sections. 2 hours.

Public Speaking 5a. Advanced Oratory: An advanced course in the delivery of orations. 2 hours.

Public Speaking 6b. Advanced Oratory: A continuation of Public Speaking 5, together with the delivery of more dramatic forms of literature. 2 hours.

Public Speaking 13a. Vocal Interpretation: An intensive study of selections from Browning, Tennyson, Dickens, etc. 2 hours.

Public Speaking 14b. Vocal Interpretation: A continuation of Public Speaking 13, together with a study of some of the masters of interpretation. 2 hours.

Public Speaking 15a. Debating: A study of the principles of argumentation as applied to debating. Reports and discussions

of some of the great American debates. Prerequisite for Arts and Sciences students, English 1. 2 hours.

Public Speaking 16b. Debating: A practical application of the principles discussed in Public Speaking 15. 2 hours.

Public Speaking 17a. Effective Speaking: The aim of this course is to train the student to think logically on public questions, and to present his material in a clear, forceful manner before an audience. 2 hours.

Public Speaking 18b. Effective Speaking: A practical application of the principles discussed in Public Speaking 17. 2 hours.

For Undergraduates and Graduates

Education 138b. Teacher's Course in Public Speaking: Investigation of the methods of teaching public speaking in the high schools. A discussion of the problems of contests in oratory, debating, extemporaneous speaking, and declamation. For those who show special aptitude for the work. 2 hours.

ROMANCE LANGUAGES AND LITERATURES

Professor Dora, Associate Professor Gimeno

French

Students may major in French or in Romance languages. For those who major in either French or Romance languages, French 1, 2, and 3 are required and do not count as major work. Italian 1 and 2 and Spanish 1 and 2 do not count as major work.

Primarily for Undergraduates

French 1a. Beginning French: Essentials of grammar, practice in colloquial French, prose composition, reading of easy texts. Special attention will be given to the French verb and to word order. Fraser and Squair's French Grammar, Guerber's Contes et Legendes, first and second parts, Talbot's Le Francais et Sa Patrie, and Halevy's L'Abbe Constantin. Given in two sections. Professor Dora. 4 hours.

French 2b. Intermediate French: Systematic study of grammar, French conversation, sight reading, parallel work. Fraser and Squair's Grammar, Cameron's Contes de Daudet, Merimee's Carmen, Sçribe et Legouve's Bataille de Dames. Given in two sections. Professor Dora. 4 hours.

French 3a. Romanticism: Selected works of Victor Hugo, George Sand, Alfred de Vigny, Theophile Gautier, Alfred de Musset, Lamartine, and Dumas. Class work will be conducted, as far as is

practicable, in French. Themes will be written on assigned subjects. Prerequisites, French 1 and 2. Professor Dora. 4 hours.

French 4b. Romanticism: Continuation of French 3. Increasing use of French as the language of the class room. Topics assigned for original research. Comparative study of the romantic movement. French composition. Patton's Causeries en France, Vigny's Le Cachet Rouge, Hugo's La Chute. Prerequisite, French 3. Professor Dora. 2 hours.

French 5a. Realism and Naturalism: Balzac's Pere Goriot, Pailleron's L'Etincelle and Le Monde ou l'on s'ennuie, Labiche's La Cigale, Maupassant's Les Prissoniers, Zola's L'Attaque du Moulin, Daudet's Le Petit Chose, Flaubert's Salammbo. Prerequisite, French 2. May alternate with French 3. Professor Dora. 4 hours.

French 6b. Victor Hugo: Study of life and representative works. Prerequisite, French 3. Professor Dora. 2 hours.

French 7a. Rostand: A critical study of L'Aiglon, Les Romanesques, La Princesse Lointaine, La Samaritaine. Collateral reading of Chantecler, Cyrano de Bergerac, Un Soir a Hernani, etc. Reports, lectures on contemporary authors. Prerequisite, French 4. Professor Dora. 2 hours.

French 8b. French Lyric Poetry: Canfield's French Lyrics. Study of the Parnassiens, Decadents, Symbolistes and contemporary writers. Hugo, Musset, Verlaine, Lisle, Bourget, Daudet, Prudhomme, Gautier, Vigny, Rousseau, Lamartine. Prerequisite, French 4 or equivalent. Professor Dora. 2 hours.

French 10b. Maeterlinck: A study of the dramas and essays of this author, his mystical symbolism and influence. Le Tresor des Humble, Pelleas et Melisande, L'Intruse, Alladine et Palomides. La Mort de Tintagiles, L'Oiseau Bleu. Lectures and discussions. Open to students of sufficient preparation. Professor Dora. 2 hours.

French 12b. Balzac: Study of representative works in each group of La Comedie Humaine; influence upon contemporary novelists and upon the development of the novel during the latter half of the century. Professor Dora. 2 hours.

French 16b. The Short Story: Selections from Daudet, Dumas, Maupassant, Flaubert, Musset, Merimee, Coppee, La Brete, Bazin, Balzac, etc. Rapid reading at sight. Designed to enable the student to follow the story without translation. Collateral readings. Short oral or written reports of same. Study of the style, etc. May be taken alone or to supplement French 4. Professor Dora. 2 hours.

For Undergraduates and Graduates

French 100a. History of French Literature: Required of all major students. Fortier's Litterature Francaise, Kastner and Atkin's

History of French Literature, and reference work from Lanson's Litterature Francaise. Special attention given to eighteenth century authors, Voltaire, Rousseau, Marivaux, Montesquieu, Beaumarchais, Le Sage. Students will write on completion of this course a monograph embodying the results of their work in certain assigned branches of the subject. Prerequisite, French 4. (Given in alternate years. Given in 1917-18.) Professor Dora. 4 hours.

French 101a. Classicism: Study of political, social, and literary history of the seventeenth century. Lectures upon the French salon. French Academy, and famous personages of the age. Corneille's Polyeucte, Horace, Le Cid; Moliere's L'Avare, Les Precieuses Ridicules, Les Femmes Savantes; Racine's Athalie, Iphigenie, Adromaque, Les Plaideurs. Prerequisite, French 4. Professor Dora. 2 hours.

French 103a. Seminar in French Literary Criticism: Hugo, Boileau, Sainte-Beuve, Renan, Taine, Brunetiere, France, and Faguet. Professor Dora. 2 hours.

French 104b. Seminar: Salon of the seventeenth century. Professor Dora. 2 hours.

French 105a. Moliere: Life, comedies and influence upon eighteenth century drama. May be taken alone or with French 101. Professor Dora. 2 hours.

French 107a. Seminar: Salon of the eighteenth century. Professor Dora. 2 hours.

Education 134b. Teacher's Course in French: Study of methods of teaching French in secondary schools. Analysis of texts adapted to high school work. Special study of phonetics, with use of the Yersin charts. Review of grammar; study of style; practice in teaching. (Given in alternate years. Given in 1917-18.) Professor Dora. 2 hours.

Italian

Italian 1a. Elementary Italian: Grammar, composition, and reading of modern authors. Associate Professor Gimeno. 4 hours.

Italian 2b. Elementary Italian: Continuation of Italian 1. Associate Professor Gimeno. 4 hours

Spanish

Primarily for Undergraduates

Spanish 1. Elementary Spanish: The aim of this course is to drill the student in correct pronounciation and practical use of the language by means of oral and written exercises. Elementary grammar. Associate Professor Gimeno. 4 hours.

Spanish 2. Intermediate Spanish: Spanish composition and reading of simple modern prose, frequent exercises in the use of the more common Spanish idioms, writing from dictation; stress is laid on

on the acquisition of fluency in reading, writing, and speaking the language. Grammar continued. Prerequisite, Spanish 1. Associate Professor Gimeno. 4 hours.

Spanish 3a. Spanish Literature: A study of modern Spanish literature, especially that derived from South American sources. Books and papers dealing chiefly with South America are read; comments are made in Spanish. Study of Spanish foundation continued. Prerequisites. Spanish 1 and 2. Associate Professor Gimeno. 4 hours.

Spanish 4b. Spanish Literature: A study of modern Spanish classics. The class is conducted mainly in Spanish. One or more works of each of the following authors is carefully studied: Alarcon, Valdez, Pardo, Valera, Galdoz, Pereda, and Ibanez. Prerequisites, Spanish 1, 2, and 3. Associate Professor Gimeno. 4 hours.

Spanish 5a. Spanish Composition: Nothing but Spanish will be spoken in class. Grammatical analyses and reading of the works of the foremost Spanish authors. Bello's Grammar. Phonology of Spanish used in Spanish America. This course is especially designed for students who intend to teach the language. Prerequisites, two years of Spanish. Associate Professor Gimeno. 2 hours.

Spanish 6b. Composition: Continuation of Spanish 5. Prerequisites, two years of Spanish, and Spanish 5. Associate Professor Gimeno. 2 hours.

Spanish 8b. Commercial Spanish: This course consists in the practice of writing letters in Spanish on ordinary business subjects and a study of the special terms used in commercial correspondence. Prerequisites, Spanish 1 and 2. Associate Professor Gimeno. 4 hours.

Spanish 9a. Commercial Spanish: A continuation of Spanish 8. Prerequisites, Spanish 1, 2, and 8, Associate Professor Gimeno. 4 hours.

For Undergraduates and Graduates

Spanish 101a. Drama: The study of Spanish fiction, drama and lyric poetry. Prerequisites, two years of Spanish. Associate Professor Gimeno. 4 hours.

Spanish 102b. Prose and Verse: The study of Spanish fiction, drama, and lyric poetry. Prerequisites, two years of Spanish. Associate Professor Gimeno. 4 hours.

SOCIOLOGY

Professor Dowd, Assistant Professor Adams

Sociology 1 and 2 may not count as major work.

Classical Archaeology 1 and 2, and Zoology 104 may count for credit in this department.

Primarily for Undergraduates

Sociology 1a. Elements of Sociology: A study of the factors that determine social life, such as climate, flora and fauna, and inherited psychological characteristics. The origin and development of social institutions such as government, law, the family, economic organizations, religion, art, education, ceremonies and customs are investigated. Lectures and assigned readings. Professor Dowd and Assistant Professor Adams. 4 hours.

Sociology 2b. Practical Social Problems: A study of the application of general sociological principles to the solution of current problems. The subjects investigated are the slums of New York, London, Chicago, and Philadelphia; poverty, its causes and remedies; unemployment; the tenement house reform; municipal and domestic sanitation; pure food regulation; industrial education for the masses; the liquor traffic; social settlement work; the organization of charity; care of the blind, deaf, insane, and the sick; prevention, punishment, and reformation of crime, etc. Lectures and assigned readings. Professor Dowd. 4 hours.

Sociology 3a. Rural Sociology: A study of domestic sanitation, beautifying of home and yards, relation of parents and children; problems of education, the family, religion and civil government with special reference to rural populations. Professor Dowd. 2 hours.

For Undergraduates and Graduates

Sociology 100b. Criminology: A study of the causes, prevention, and treatment of crime, including an investigation into the hereditary, anthropometrical, psychological, and sociological factors; the relation of crime to genius and insanity; criminality and degeneracy among artists, musicians, painters, poets, inventors, and reformers; relation of crime to political and social conditions, epochs, occupation, sex, race, and climate, etc. Lectures and assigned readings. Professor Dowd. 2 hours.

Sociology 101a. Modern Race Problems: A study of the negro, Indian, Mongolian, and Jew, in the light of their racial origin and characteristics; the causes of race conflicts and the means of avoiding and remedying them. The object of this course is to discover the characteristics in each race which may be advantageously assimilated

by all and those which require modification and elimination; to equip students who may enter commercial life, law, politics, and public service with such knowledge of these races as will make for the uplifting of each and the harmony of all. Lectures and assigned readings. Professor Dowd. 2 hours.

Sociology 102a. Social Evolution: A study of the development of society from the savage state to the present, in respect to the economic, familial, political, aesthetic, and religious life, racial heredity, physical and social environment as modifying factors. A comparative study is made of the civilization of the Mexicans, Egyptians, Greeks, Romans, French, Germans, and Americans. The main object is to ascertain the social causes and laws, and to apply the underlying principles thus discovered to whatever is abnormal or retrogressive. Professor Dowd. 4 hours.

Sociology 103b. Ethnology: A study of the human races, their physical, intellectual, and social peculiarities. Origin and differentiation of races; the conflict and survival of races; influence of geographical and physical environment. Lectures and assigned readings. (Given in alternate years. Given in 1917-18.) Professor Dowd. 2 hours.

Sociology 104b. Anthropology: A study of man in the light of archaeology, physical anthropology, and sociology; his stature and proportions, form of head and development of brain; his mental and moral organization; the origin of his speech, language, writing, inventions, implements, musical instruments, songs, folklore, painting, drawing, sculpture, customs, ceremonies, etc. (Given in alternate years. Given in 1916-17.) Professor Dowd. 2 hours.

Primarily for Graduates

Sociology 200b. History of Sociological Thought: A study of the principal sociological writers in France, Germany, England, and the United States from the sixteenth century to the present. Professor Dowd. 4 hours.

Sociology 201a. Sociological Aspects of Art: A study of the origin and development of the fine arts among the different races and nations, investigations of the development of the characteristic national traits and the manner in which they are expressed in art; the relation of art to morals, to idealism, and to economic progress; the causes of degeneracy in art, etc. Professor Dowd. 2 hours.

Sociology 202a. Seminary for Research: Professor Dowd. 1 to 3 hours.

Sociology 203b. Seminary for Research: Professor Dowd. 1 to 3 hours.

SPANISH

See the Department of Romance Languages.

ZOOLOGY

Professor Lane, Mr. Cross

The courses in zoology are planned to give the student a thorough knowledge and understanding of the fundamental facts and theories of the science, so that he may be well equipped either for teaching or for investigation. Zoology 1, 2, and 3 are general culture courses, any two of which will fulfill the freshman requirement in science; they may not be counted as major work. The prospective high school teacher should take all three as the minimum necessary for his preparation in this subject; but in addition he will find it highly advantageous to pursue Zoology 25, 100, 102, 103, 104, 105, and Education 137.

Zoology 2, with another course in zoology or with Botany 1, is required for admission to the School of Medicine.

Courses 100 to 107 inclusive are open to graduate students who have had not less than twelve hours previous work in zoology; but when so elected, will require additional work in the course.

Primarily for Undergraduates

Zoology 1a. General Zoology: A survey of the fundamentals and generalizations of the science of zoology with special regard to the laws of life, the relationships of living things, and such biological problems as are more or less intimately related to human life, welfare, and culture. The laboratory work consists of the study of selected invertebrate types from the standpoints of structure, physiology, life history, and biological relations. Deposit required. Professor Lane and Mr. Cross. 4 hours.

Zoology 2b. General Zoology: An elementary consideration of the vertebrates from the standpoints of structure, physiology, life-history and biological relations. The laboratory work consists of the study of the fish, frog, and mammal. Required of prospective medical students. Prerequisites, Zoology 1 or 3, or Botany 1. Deposit required. Professor Lane. 4 hours.

Zoology 3b. Elementary Animal Ecology: A study of local animal life based on lectures, assigned readings, field trips to nearby points, and laboratory work on the classification and structural characters of Oklahoma animals. Especially designed for prospective teachers and students who wish to become acquainted with the abundant local fauna. No prerequisite, though Zoology 1 is recommended. Deposit required. Mr. Cross. 4 hours.

Zoology 25a. Vertebrate Zoology: A study of vertebrates from the standpoints of structure, classification and biological relations.

Designed for students who do not expect to enter the School of Medicine Lectures, recitations and laboratory work. Deposit required. Professor Lane. 4 hours.

For Undergraduates and Graduates

Zoology 100b. Invertebrate Zoology: An advanced study of the development, classification, and natural history of the invertebrates. Lectures, recitations, assigned readings, and a study of a number of types of representative invertebrates. Deposit required. Prerequisite, Zoology 1 and 2, or 1 and 3. Parker and Haswell, Text-book of Zoology, Vol. I, and Drew, Laboratory Manual of Invertebrate Zoology. Mr. Cross. 4 hours.

Zoology 102a. Comparative Anatomy: An advanced study of the structure, classification, and paleontology of the vertebrates. Lectures, recitations, assigned readings, and dissection. Parker and Haswell, Textbook of Zoology, Vol. II, and various laboratory guides. Prerequisites, Zoology 1 and 25. Deposit required. Professor Lane. 4 hours.

Zoology 103b. Vertebrate Embryology: A study of the essentials of vertebrate embryology with special regard to organogeny in the chick, pig, and man; use is made of whole mounts of embryos, sections, dissections, and models. Prerequisites, Zoology 1 and 2, or 25. Deposit required. Professor Lane. 4 hours.

Zoology 104a. Heredity and Variation: A course of lectures, assigned readings, and reports on heredity and variation, including such topics as the physical basis of heredity, theories of heredity, Mendelism, law of ancestral inheritance, the practical application of known principles of heredity to the problems of the animal breeder, eugenics, and the modification of animals by hereditary, environmental, and other influences. Open only to those who have had one year's work in zoology, botany, or physiology. 4 hours.

Zoology 105a. Advanced Animal Ecology: A continuation of Zoology 3, dealing with the general principles of the behavior, local and world distribution of animals. Lectures, field trips to local points, individual reading, and laboratory work as assigned. Prerequisites, Zoology 1 and 3. Deposit required. Mr. Cross. 4 hours.

Zoology 106a. Special Zoology: A course of lectures, assigned readings and laboratory work on special phases of zoology, designed particularly as an introduction to the work usually done in the graduate school and therefore intended for major students who expect to enter zoological work as a life profession. Students should consult

the instructor before enrolling in this course. Deposit required. Credit and hours to be arranged. Professor Lane.

Zoology 107b. Special Zoology: A continuation of Zoology 106. Deposit required. Credit and hours to be arranged. Professor Lane.

Education 137b. Teacher's Course in Zoology: A course designed particularly for prospective teachers of nature study in the public schools or zoology in high schools. Lectures on such topics as the history of zoology; the pedagogical value and methods of the science, especially in its relation to secondary education; outlines of courses for public school and high school curricula; the collection and preservation of zoological material, etc. In the laboratory, each member of the class is given practical experience in teaching zoology, together with a critical consideration of his material and method. Prerequisites, Zoology 1, 3, and 25. Mr. Cross. 2 hours.

Primarily for Graduates

Zoology 200a. Advanced Zoology: Problems in research. Lectures and laboratory. Deposit required. Students should consult the instructor before enrolling in this course. Credit and hours to be arranged. Not open to undergraduates, except by permission of the head of the department. Professor Lane.

Zoology 201b. Advanced Zoology: Problems in research. Lectures and laboratory. Deposit required. Students should consult the instructor before enrolling in this course. Credit and hours to be arranged. Not open to undergraduates, except by permission of the head of the department. Professor Lane.

Zoology 200 and 201 consist of lectures on the nature of research in zoology, the problems to be solved, methods and technique of attack, bibliography, etc. Each student is assigned a problem suited to his capacity and training, and is guided to its solution with the purpose in view of the presentation of a creditable and original thesis.

THE SCHOOL OF FINE ARTS

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

FREDRIK HOLMBERG, B. M.
Dean of the School of Fine Arts, Professor of Music.

*JOSEPH FRANCIS PAXTON, A. M.
Professor of Greek and Classical Archaeology.

ROY GITTINGER, A. M.
Dean of Undergraduates, Professor of English History.

*THEODORE HAMPTON BREWER, M. A.
Professor of English Literature.

LUCILE DORA, M. A.
Professor of the Romance Languages and Literatures.

‡ROY TEMPLE HOUSE, A. M.
Professor of German.

WARREN WAVERLEY PHELAN, Ph. D.
Professor of Psychology and Education.

EVA ELLSWORTH DUNGAN, Graduate, Cornell College, Iowa.
Professor of Public School Music and Piano.

CHARLES FRANCOIS GIARD, Graduate, New England Conservatory of Music.
Professor of Piano and Theory of Music.

RICHARD GRAY SOUTAR, B. A.
Professor of Physical Education.

PATRICIO GIMENO, B. A.
Associate Professor of Romance Languages.

*BURTON FRANK TANNER, B. L.
Assistant Professor of Public Speaking.

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*On leave of absence, 1915-16.
‡On leave of absence, second semester, 1915-16.

LEWIS SPENCER SALTER, B. M.
Assistant Professor of Piano and Theory of Music.

GEORGE FREDERICK WILLIAM SCHMIDT, B. M.
Assistant Professor of Voice.

PAUL S. CARPENTER, Graduate, Broadstreet Conservatory of Music, Philadelphia. Assistant Professor of Violin.

METTA KATHRYN LEGLER.
Assistant Professor of Voice.

OSCAR BROUSSE JACOBSON, B. F. A.
Assistant Professor of Art.

RACHEL REVELL, Ph. B.
Instructor in Physical Education.

CLARK SNELL, B. Mus.
Instructor in Piano.

MARIE ANDERSON, B. A.
Assistant in Public Speaking.

THE SCHOOL OF FINE ARTS

The School of Fine Arts is on the third floor of the new University Hall. The studios and class rooms, especially fitted for the work, are large, commodious, and sound-proof.

The School of Fine Arts offers:

a. Four years' work in the theory of music, in piano, in voice, and in violin, leading to the degree of Bachelor of Music;

b. Four years' work in drawing and painting, leading to a certificate in art;

c. Four years' work in domestic art, leading to a certificate in art;

d. Regular classes and individual instruction in dramatic art and expression;

e. Courses in violoncello, cornet, and other band and orchestra instruments.

f. Graduate work in piano, voice, and violin for those who desire to make public performances and repertoire a specialty.

g. Preparatory work in piano, voice, and violin.

RECITALS AND CONCERTS

The work of the year is interspersed with concerts and public and private recitals. The situation of Norman makes it possible for some of the best musicians to visit the city.

ORGANIZATIONS

Such organizations as the orchestra, band, glee club, and the like are maintained each year.

The orchestra meets twice a week and is open to all students who can satisfy the entrance requirements. Several concerts are given during the season.

The choral union has for its object the study of standard oratorios and other choral works. It meets once a week during the second semester.

The band furnishes music for the various athletic meets, besides assisting in concerts during the year. Two rehearsals are held each week.

The men's glee club has a membership of about twenty-five.

Membership is decided by competition. Two rehearsals are held each week.

The Mendelssohn Glee Club is an organization for young women. Two rehearsals are held each week.

The glee clubs give several concerts and entertainments during the season.

An opera is given each season by university talent.

RENDER MEDAL

Through the courtesy of Samuel P. Render, Esq., of Oklahoma City, Oklahoma, the School of Fine Arts is holder of a gold medal to be contested for annually. This medal is presented to the student who has made the highest grade in the study of harmony.

CONCERT COMPANIES

Concert companies, consisting of members of the faculty of the School of Fine Arts and advanced students, are organized for the purpose of giving concerts on the university extension circuits.

Trips are also arranged for the different musical organizations such as the orchestra, the band, the glee club, and the quartets.

INTERSCHOLASTIC CONTEST

An interscholastic contest in music, in art, and in expression for high school pupils is conducted by the School of Fine Arts each year in connection with the Interscholastic Track and Field Meet. The winners of these contests receive free scholarships. Particulars will be furnished on application to the Dean of the School of Fine Arts.

DEGREES

Upon the satisfactory completion of the prescribed and elective studies in music as outlined below, the candidate will receive the degree of Bachelor of Music (B. M.), qualified by the name of the department in which the major work has been done.

Certificate for Musical Supervisors

Upon satisfactory completion of the following courses, candidate will be granted a certificate as Supervisor of Public School Music:

Music 1, 5, 6, 8, and 9, Education 139 and 140, Group I in Voice, and English 1 and 2.

Certificates in Art

Upon satisfactory completion of the courses outlined in the history of art and in applied art, the candidate will receive a certificate in art.

Upon satisfactory completion of the courses outlined in domestic art the candidate will receive a certificate in art.

ADMISSION

Applicants may be admitted to the School of Fine Arts as candidates for a degree, as unclassified students, or as preparatory students. Candidates for a degree are admitted either to first-year work without condition, or to advanced standing.

Admission to First-Year Work

Applicants for admission to first-year work should be at least sixteen years of age and should be graduates of a high school or have had an equivalent training.

The requirements for admission are given below in units:

	UNITS
English	3
One Foreign Language	2
History	1
Algebra	1
*Piano or Violin	3
Electives	5
	15

*For entering the department of art three elective units may be substituted for these units. Candidates who cannot secure admission credits in music may take these courses in the university but without university credit.

1. For admission to the courses in piano, or in voice, students must have completed Landon, Bertini, Berger, Vogt, two Clementi Sonatinas, two Kulau Sonatinas. They must be able to play easy compositions such as Schumann's "Happy Farmer," Schumann's "The Wild Horseman," Gurlitt's "Consolation," Saeboeck's "Lullaby," Godard's "Waltz," Bohm's "Mazurka," Kjerulf's "Cradle Song," Barilli's "Cradle Song." The equivalent of any of the above may be substituted.

For the satisfactory completion of this work three admission units are granted.

2. For admission to the courses in violin, students must have completed Kayser's Etudes, Book I and II, Schradieck's Technic (Section I) Dancla's six Air Varies, or the equivalent of the above-mentioned works.

For the satisfactory completion of this work three admission units are granted.

Credit for the above described preparatory courses in music is given only on examination.

A description of all work that may be offered to satisfy the required or elective units as well as a statement of the ways in which credit may

be secured for work done in high school may be found under the head of "Admission."

Admission as Preparatory Students in Music

Students taking preparatory courses in music outlined above will be classified as preparatory students in the School of Fine Arts.

Admission as Unclassified Students in Music

Students who have credit for the required admission units in music but who are otherwise deficient in entrance requirements will be enrolled as unclassified students and allowed to take such technical work in music as may best suit their needs.

Admission to Advanced Standing In Music

Applicants may secure advanced standing for technical or applied work in this school only with the approval of the department concerned. Advanced standing for academic subjects is given under the regulations adopted for the College of Arts and Sciences.

FEES AND DEPOSITS

Tuition is free in all courses offered in the School of Fine Arts. The general fees payable by students in fine arts are listed in "Fees and Deposits" under "General Information." For individual lessons the university collects fees for the respective instructors as follows:

For preparatory music, piano, voice, or violin, two thirty-minute lessons a week, $18.00, $27.00, $36.00, or $45.00 a semester depending on which instructor is chosen.

For applied music (piano, voice, violin) Groups I, II, III, or IV, two thirty-minute lessons a week, $18.00, $27.00, $36.00, or $45.00 a semester depending on which instructor is chosen. Students regularly admitted to Group IV in the University of Oklahoma in applied music are not required to pay tuition, if at least one of the preceding groups has been taken in the University of Oklahoma.

Students in applied art who are deficient in entrance requirements will be charged $27.00 tuition until such deficiences are made up.

For instruction in band and orchestra instruments, two thirty-minute lessons a week, $18.00 a semester.

For courses in expression, first, second, or third year, two thirty-minute lessons a week, $27.00 a semester.

Fees are payable strictly in advance and no lessons will be given until a receipt from the financial clerk is presented to the instructor.

Fees are not refunded except when a student must discontinue his lessons for unavoidable cause.

Students absent from more than one-third of the lessons for which

they are enrolled in applied music or expression will be dropped and no fees will be refunded.

In the courses in drawing, painting, and domestic art, students must pay for their own material.

PIANOS FOR PRACTICE

Pianos for practice may be rented from the university, or from music houses, for use one hour a day at a cost of $0.75 to $1.00 a month; for two hours a day at a cost of $1.50 to $2.00 a month. A piano for exclusive use of one or more pupils will cost from $3.50 to $5.00 per month.

SPECIAL RULES AND REGULATIONS OF THE SCHOOL OF FINE ARTS

Students regularly enrolled in the School of Fine Arts will not be permitted to take more than twelve hours of work besides the technical (or applied) work in music, expression, or art. Eight hours shall be considered average work. This rule will be waived only in exceptional cases, and then only by a three-fourths vote of the faculty of the School of Fine Arts. No student who has received a mark of failure, or who has a condition that is not removed on or before the first Saturday of the following semester, shall enroll for more than eight hours outside of the technical work in music, art, or expression.

No student is permitted to take part in any public performance without the consent of the instructor. A student violating this rule will not be given credit for work done in applied music or expression during the semester in which the rule is violated.

Lessons falling on legal holidays will not be made up.

Lessons missed through a student's own negligence will not be made up.

The art department reserves the right to keep drawings, paintings, etc., done by students, for the university art collection. A student taking away drawings and paintings without permission will not receive credit for the specimens of work taken away.

Students in applied music are required to attend rehearsals and take part in public performances connected with the university when the faculty of the School of Fine Arts thinks it will benefit the students. This rule will be strictly enforced, and students violating the same will be conditioned in applied music until such students become regular in this work. Graduate students violating this rule will be dropped from the course.

Students in the School of Fine Arts are not charged fees for ap-

plied music during the senior year in the particular branch in which they major.

All work in applied music and art catalogued in Group IV must be completed in residence with an instructor regularly employed by the university. No degree will be given in violation of this rule.

RULES FOR RECITALS

Students in voice, violin, and piano, who are pursuing the regular fine arts course, must attend at least two-thirds of the pupils' recitals given each semester. Special fine arts students, those enrolled in the School of Fine Arts and taking applied music only, and students enrolled in any other school or college in the university and taking applied music in the School of Fine Arts, are required to attend at least one-half the pupils' recitals each semester. Compulsory attendance is not required of special students in applied music who are below Group I. Students violating this rule are conditioned in applied music until the deficiency is removed.

The above rules do not apply to any musical entertainments where admission is not free.

CREDIT FOR WORK DONE IN MUSICAL ORGANIZATIONS

Credit will not be given to any student for work in musical organizations until such student has been a member of an organization for one semester. After the above requirements have been fulfilled credit may be received towards a B. M. degree as follows:

For work in orchestra one-half hour credit a semester.

For work in glee club one-half hour credit a semester.

For work in band one-half hour credit a semester.

For work in chorus one-half hour credit a semester.

Absences from rehearsals will be checked against a student in this work under the rules that govern work in regular classes of the university.

Not more than four hours credit for work done in any one of the above-mentioned organizations will be granted towards a degree.

ENROLLMENT AND CHANGE OF STUDIES

Students may enroll in applied or technical work in music, expression, or art, at any time in a semester, but if they wish to complete regular courses they should enter at the beginning of a semester.

Students must enroll in theoretical courses in music or art at the beginning of the semester, except as provided for in the rules for "Change of Studies."

For additional information about enrollment see "Method of Enollment" under "General Information."

OUTLINE OF COURSES IN MUSIC

OUTLINE OF COURSES LEADING TO B. M. DEGREE IN THEORY OF MUSIC

Candidates for the B. M. degree in theory of music must complete Groups I, II, and III in piano, in voice, or in violin, in addition to the courses in the following outline.

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (History of Music)	2	Music 6 (History of Music)	2
English 1	4	English 2	4
Public Speaking 1	2	Public Speaking 2	2
Physical Education 1 or 51	1	Physical Education 2 or 52	1
Total	13	Total	13

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1 or French 1	4	German 2 or French 2	4
Elective	2	Philosophy 109	2
Total	8	Total	8

Junior Year

Music 100 (Canon)	2	Music 101 (Fugue) or Music 104 (Musical Analysis)	2
Music 7 (Musical Forms)	2	Elective	2
Music 102 (Instrumentation)	2	Music 103 (Instrumentation)	4
Total	6	Total	8

Senior Year

Music 105 (Composition)	4	Music 106 (Composition)	4
Music 107 (Adv. Hist. of Music)	2	Music 108 (Adv. Hist. of Music)	2
Elective	4	Music 109 (Adv. Instrumentation)	2
Total	10	Total	8

OUTLINE OF COURSES LEADING TO B. M. DEGREE IN PIANO

Candidates for the B. M. degree in piano must complete Groups I, II, III, and IV in piano in addition to the courses in the following outline:

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (Hist. of Music)	2	Music 6 (Hist. of Music)	2
English 1	4	English 2	4
Physical Education 1 or 51	1	Physical Education 2 or 52	1
Total	11	Total	11

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1 or French 1	4	German 2 or French 2	4
Elective	2	Elective	2
Total	8	Total	8

Junior Year

Music 100 (Canon)	2	Music 101 (Fugue) or Music 104 (Musical Analysis)	2
Music 7 (Musical Forms)	2	Music 111 (Theory of Teaching Piano,)	2
Music 110 (Mus. Pedagogy)	2	Elective	2
Total	6	Total	6

Senior Year

Music 102 (Instrumentation)	2	Music 103 (Instrumentation)	4
Music 112 (Practice of Teaching Piano)	2	Music 113 (Practice of Teaching Piano)	2
Elective	2		
Total	6	Total	6

OUTLINE OF COURSES LEADING TO B. M. DEGREE IN VOICE

Candidates for the B. M. degree in voice must complete Groups I, II, III, and IV in voice in addition to the courses in the following outline:

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (Hist. of Music)	2	Music 6 (Hist. of Music)	2
English 1	4	English 2	4
Physical Education 1 or 51	1	Physical Education 2 or 52	1
Total	11	Total	11

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1	4	German 2	4
Elective	2	Elective	2
Total	8	Total	8

Junior Year

Music 100 (Canon)	2	Music 101 (Fugue) or Music 104 (Musical Analysis)	2
Music 7 (Musical Forms)	2	Music 114 (The Theory of Teaching the Art of Singing)	2
Music 110 (Mus. Pedagogy)	2	Italian 2	4
Italian 1	4		
Total	10	Total	8

Senior Year

Music 102 (Instrumentation)	2	Music 103 (Instrumentation)	4
Music 115 (The Practice of Teaching the Art of Singing)	2	French 2	4
French 1	4		
Total	8	Total	8

OUTLINE OF COURSES LEADING TO B. M. DEGREE IN VIOLIN

Candidates for the B. M. degree in violin must complete Groups I, II, III, and IV in violin in addition to the courses in the following outline:

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Music 1 (Harmony)	4	Music 2 (Harmony)	4
Music 5 (Hist. of Music)	2	Music 6 (Hist. of Music)	2
English 1	4	English 2	4
Physical Education 1 or 51	1	Physical Education 2 or 52	1
Total	11	Total	11

Sophomore Year

Music 3 (Counterpoint)	2	Music 4 (Counterpoint)	2
German 1 or French 1	4	German 2 or French 2	4
Elective	2	Elective	2
Total	8	Total	8

Junior Year

Music 100 (Canon)	2	Music 101 (Fugue) or Music 104 (Musical Analysis)	2
Music 7 (Musical Forms)	2	Music 116 (The Theory of Teaching Violin)	2
Music 110 (Mus. Pedagogy)	2	Elective	2
Total	6	Total	6

Senior Year

Music 102 (Instrumentation)	2	Music 103 (Instrumentation)	4
Music 117 (Practice of Teaching Violin)	2	Music 118 (Practice of Teaching Violin)	2
Elective	2		
Total	6	Total	6

OUTLINE OF COURSES LEADING TO CERTIFICATE IN ART

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Art 1	4	Art 2	4
Art 9	2	Elective	2
English 1	4	English 2	4
German 1	4	German 2	4
Physical Education 1 or 51	1	Physical Education 2 or 52	1
Total	15	Total	15

Sophomore Year

Art 3	4	Art 4	4
Art 11	2	Art 12	2
French 1	4	French 2	4
History 159	4	History 160	4
Total	14	Total	14

Junior Year

Art 5	4	Art 6	4
Art 13	2	Art 14	2
Public Speaking 1	2	Classical Archaeology 4	4
Elective	8	Public Speaking 2	2
		Philosophy 109	2
		Elective	2
Total	16	Total	16

Senior Year

Art 7	4	Art 8	4
Italian 1	4	Italian 2	4
Elective	8	Elective	8
Total	16	Total	16

OUTLINE OF COURSES LEADING TO CERTIFICATE IN DOMESTIC ART

Freshman Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Art 1	4	Art 2	4
Art 9	2	Elective	2
English 1	4	English 2	4
German 1	4	German 2	4
Physical Education 1 or 51	1	Physical Education 2 or 52	1
Total	15	Total	15

Sophomore Year

Art 3	4	Art 4	4
Art 11	2	Art 12	2
French 1	4	French 2	4
History 159	4	History 160	4
Total	14	Total	14

Junior Year

Art 21	2	Art 22	2
Art 23	2	Art 24	2
Art 13	2	Art 14	2
Public Speaking 1	2	Classical Archaeology 4	4
Elective	8	Public Speaking 2	2
		Philosophy 109	2
		Elective	2
Total	16	Total	16

Senior Year

Art 25	2	Art 26	2
Art 27	2	Art 28	2
Italian 1	4	Italian 2	4
Elective	8	Elective	8
Total	16	Total	16

DESCRIPTION OF COURSES

Credit will be given in the College of Arts and Sciences for not more than twenty-seven hours in the history and theory of music and in the history of art, of which not more than six hours may be in art. Art 1 and 2, however, will be accepted for eight hours credit

Courses marked a are first semester courses. Courses marked b are second semester courses.

THEORY AND HISTORY OF MUSIC

Professor Holmberg, Professor Dungan, Professor Giard, Assistant Professor Salter, Assistant Professor Schmidt, Assistant Professor Carpenter

Primarily for Undergraduates

Music 1a. Harmony: A study of the fundamental principles of music, beginning with the origin and development of scales and intervals. Practical work in connecting simple chords, chords of the seventh, augmented triads, augmented sixths, and cadences. Special attention will be given to simple harmonic phrasing and ear training. Harmony, by Emory, Prout, and Richter. Assistant Professor Salter. 4 hours.

Music 2b. Harmony: A continuation of Music 1. A study of modulations, suspensions, anticipations, appogiaturas, passing notes, organ point, choral writing, and accompaniment. Most of the work in this course will consist of original exercises. Texts for reference, Harmony, by Jadassohn, Richter, and Chadwick. Assistant Professor Salter. 4 hours.

Music 3a. Counterpoint: The principles of harmony are applied to melodious treatment of several parts in combination. Chorals and melodies are harmonized with free use of passing notes, etc., with and without cantus firmus. Original work in free composition in the smaller forms. Prerequisite, Music 1. Professor Giard. 2 hours.

Music 4b. Counterpoint: A continuation of Music 3. Special study in free and double counterpoint, imitative counterpoint, and inventions. Vocal counterpoint and choral works. Original exercises in composition. Prerequisite, Music 1, 2, and 3. Professor Giard. 2 hours.

Music 5a. History of Music: This course embraces a system-

atic study of the origin and development of music of the ancient oriental nations, the music of the early Christian age, the beginning of polyphony, and the musical sovereignty of the Netherlanders. This is a literary course and does not require any special musical training. Text and readings. Assistant Professor Salter. 2 hours.

Music 6b. History of Music: This course consists of a study of the music of the sixteenth century and the historical development of secular and sacred music of the classic, romantic, and modern schools. Lectures and readings. An aeolian orchestrelle is used to illustrate the great masterworks. Assisiant Professor Salter. 2 hours.

Music 7a. Musical Forms: A study of the origin and development of the various musical forms, including designs, the phrase and section, song forms of one, two, and three periods, applied song forms, the old dance forms, the suite, the sonata form, rondo forms, the overture, the concerto, vocal forms, modern dance forms, etc. For reference, texts by Prout, Elson, and Pauer. An aeolian orchestrelle is used to illustrate the larger works. Prerequisite, Music 1 and 2. Professor Giard. 2 hours.

Music 8a. Public School Music: This course is designed for students who expect to combine the teaching of other branches with the subject of music in the public schools. The work consists of a study of the technical points to be presented in the school and the practice of songs suitable for school use. The course is open to all college students. No technical knowledge is required. Twice a week. Professor Dungan. 1 hour.

Music 9b. Public School Music: A continuation of Music 8. Special attention will be given to the art of conducting classes in four-part singing, and no one will receive a passing grade in the course who does not thoroughly know the words and music of the most prominent national songs of the United States Prerequisite, Music 8. Twice a week. Professor Dungan. 1 hour.

Music 10a. Appreciation of Music: The purpose of this course is to give students of the university who have no special musical training, suggestions as to how to listen to music. Mechanical devices such as an orchestrelle and a victrola will be used to illustrate the development of music from earliest times up to the present. The different schools of the different periods will be studied and compared. National characteristics in music will also be given considerable attention. Open to all students of the university. Twice a week. Professor Holmberg. 1 hour.

For Undergraduates and Graduates

Music 100a. Canon: A study of canon in two or more parts, similar and contrary motion. Original work in composition in the

larger forms. Prerequisite, Music 1, 2, 3, and 4. Professor Giard. 2 hours.

Music 101b. Fugue: The work consists of the analysis and composition of fugues in two, three, and four parts. Advanced forms of vocal and instrumental music will be composed by the students. Professor Holmberg. 2 hours.

Music 102a. Instrumentation: This course embraces lectures on the art of instrumentation with special reference to the compass, quality of tone, balance, and contrast of the various instruments. Exercises in simple orchestration. Books for reference by Beriloz, Prout, and Gavaert. Prerequisite, Music 1, 2, 3, 4, and 7. Professor Holmberg. 2 hours.

Music 103b. Instrumentation: This is a continuation of Music 102. It requires practical work in orchestration in the larger musical forms, using for this purpose selections from the works of the masters and the original compositions of the students. Professor Holmberg. 4 hours.

Music 104b. Musical Analysis: This course is offered to those who desire an analytical knowledge of musical composition from an intellectual and emotional standpoint. This course may be substituted for Music 101. Prerequisite, Music 1, 2, 3, and 7. Four times a week. Professor Holmberg. 2 hours.

Music 105a. Composition: The work consists principally of original compositions and analytical studies of modern compositions. Prerequisite, Music 1, 2, 3, 4, 7, and 100. Professor Giard. 4 hours.

Music 106b. Composition: A continuation of Music 105. Professor Giard. 4 hours.

Music 107a. Advanced History of Music: A study of musical development of the twentieth century, and weekly reports on current musical events. Prerequisites, Music 5 and 6. Professor Holmberg. 2 hours.

Music 108b. Advanced History of Music: A continuation of Music 107. Prerequisite, Music 107. Professor Holmberg. 2 hours.

Music 109b. Advanced Instrumentation: Original compositions for chorus, orchestra, etc. Part of the time is used for analyzing modern orchestral scores. Prerequisites, Music 102 and 103. Professor Holmberg. 2 hours.

Music 110a. Musical Pedagogy: This course includes a study of some of the principles of psychology as applied to the study of music, and an exposition of the laws of teaching as applied to all branches of music teaching. Assistant Professor Salter. 2 hours.

Music 111b. The Theory of Piano Teaching: A course designed to equip the prospective piano teacher. It includes (1) a practical

study of hand position, relaxation, and muscular conditions; the various technical problems in the trill, scale, chord, arpeggio, and octave; the pedals, embellishments, phrasing, etc., and the methods of presenting these subjects to the pupil; (2) a detailed study of teaching material, studies, and pieces for the piano. Prerequisite, Music 110. Assistant Professor Salter. 2 hours.

Music 112a. The Practice of Piano Teaching: Practical experience in teaching under the supervision of one of the piano teachers is given. Prerequisites, Music 110 and 111. 2 hours.

Music 113b. The Practice of Piano Teaching: A continuation of Music 112. 2 hours.

Music 114b. The Theory of Teaching the Art of Singing: This course aims to help the students of singing, and adequately to prepare them for the teaching profession. Topics like the following will be dealt with: physiological phases of singing, breathing, tone placing, the psychological relations of the various phases of the art of singing, a choice of teaching material with special reference to the various voices and stages of development, enunciation and syllabication with special reference to program building. These topics are presented partly in lectures. Outside reading and reports are also required as a part of the work. Prerequisite, Music 110. 2 hours.

Music 115a. The Practice of Teaching the Art of Singing: The work in this course consists of practical experience in teaching the art of singing under the supervision of one of the teachers of voice culture. Prerequisites, Music 110 and 114. 2 hours.

Music 116b. The Theory of Violin Teaching: The object of this course of study is to train prospective teachers how to teach, and it is the purpose of this course to give the student practical experience in the best methods to be used with a variety of pupils. Prerequisite, Music 110. 2 hours.

Music 117a. The Practice of Violin Teaching: Practical experience in teaching violin under the supervision of the head of the violin department is given. Prerequisites, Music 110 and 116. 2 hours.

Music 118b. The Practice of Violin Teaching: A continuation of Music 117. 2 hours.

Education 139a. Teacher's Course in Music: This course is designed for those who wish to fit themselves for the special work of supervisors of music in public schools. It includes the following subjects: rote songs and their application to school work; elements of music as presented in the grades, and best methods of reading; study

of the child voice; sight-singing and ear training. Prerequisites, Music 8 and 9. Professor Dungan. 2 hours.

Education 140b. Teacher's Course in Music: Practice in teaching; elementary harmony and musical form as presented in the high school; the problems of the supervisor and how to meet them; interpretation of songs; art of conducting; practice in conducting. Prerequisite, Education 139. Professor Dungan. 2 hours.

APPLIED MUSIC

The prescribed technical work in each of the several departments is described below. The groups are so arranged that the average student can complete the work in one group each year.

PIANO

Professor Dungan, Professor Giard, Assistant Professor Salter, Mr. Snell

Technical Work Required for the Degree of Bachelor of Music in Piano

Group I

Out of the following list of compositions, twelve must have been studied and four of the twelve must have been performed in public.

Mozart, Sonata C major
Gade, Aquarelles (3)
Jenson, The Mill
Scharwenka, op. 62
Hoffman, Mood Pictures
Schumann, op. 68 (5)
Wilm, At the Spinning Wheel

16 hours.

Group II

Out of the following list of compositions, twelve must have been studied, and four of the twelve must have been performed in public.

Haydn, Sonata E flat
Mozart, Sonata F major
Bach, Two Part Inventions (6)
Mendelssohn, Songs Without Words (5)
Lavelle, Le Papillon
Litolf, Spinning Song
Raff, Fabliau
Rheinberger, Ballade A minor
St. Heller, op. 80, No. 1, 2

16 hours.

Group III

Out of the following list of compositions, twelve must have been studied, and four of the twelve performed in public.

Beethoven, Sonata op. 10, No. 2
Schubert, Sonata A major
Scarlatti, Sonata A major
Haesslor, Gigue D minor
Bach, Prelude and Fugue, No. 2
Bach, Partitas (Allamande, Courante)
Schumann, Papillons
Liszt, Consolations (2)
Grieg, op. 19
Moscheles, Preludes (8)
Chopin, Fantasie Impromptu
Chopin, Nocturne F minor
Chopin, Waltz C sharp 16 hours.

Group IV

Students may enter Group IV by examination only.

Out of the following list of compositions, a program lasting at least one hour must have been committed to memory, and performed in public. One-half of this program may be selected from the list given in Group III.

Beethoven, Concerto G major
Beethoven, Sonata op. 26
Beethoven, Sonata op. 28
Bach, Prelude and Fugue, No. 19
Bach, Italian Concerto
Chopin, Waltz in E minor
Chopin, Nocturne F sharp
Chopin, Etude E major
Chopin, Polonaise A major
Reinecke, Ballade A flat
Schumann, op. 12, Nos. 2, 3, 8, 12
Mendelssohn, Variation Serieuses
Raff, Fairy Tale
Liszt, Gnomenreigen 16 hours.

For any composition listed in the above four groups, a composition of equal merit may be substituted.

VOICE

Assistant Professor Legler, Assistant Professor Schmidt

Technical Work Required for the Degree of Bachelor of Music in Voice

Group I

Out of the following list of compositions, twelve must have been studied and four of these must have been sung in public.

Special vocalizes with teacher
Concone, op. 9
The Violet, by Mildenberg
Roses, by Lynes
Night Time, by Van de Water
Singing in God's Acre, by Brackett
Sweetheart, by Hawley
Ave Maria, by Raff
Red, Red Rose, by Hastings
The Old and the Young Marie, by Cowen
Love's Sorrow, by Shelly
Jean, by Burleigh 16 hours.

Group II

Out of the following list of compositions, twelve must have been studied and four of these must have been sung in public.

Special exercises in phrasing and technique by teacher
Marchesi, op. 21, Part III
The Dream, by Rubinstein
Polly Willis, by Arne
The Lass with the Delicate Air, by Arne
Oh! Dry Those Tears, by Del Reigo
At Parting, by Rogers
Asthore, by Trotre
Calm as the Night, by Bohm
Because I Love You, Dear, by Hawley
The Rosary, by Nevin
Nearer, My God, to Thee, by B. O. Klein
Over the Stars There Is Rest, by Abt
My Dreams, by Tosti 16 hours.

Group III

Out of the following list of compositions, twelve must have been studied and four of these must have been sung in public.

Advanced vocalizes and technique by teacher
Marchesi, op. 21, Part IV
I'll Sing Thee Songs of Araby, by Clay
My Heart at Thy Sweet Voice, by Saint Saens
Lullaby (from Jocelyn), by Godard
Oh! Vision Entrancing, by Goring Thomas
I Love Thee, by Dudley Buck
Songs My Mother Taught Me, by Dvorak
The Message, by Blumenthal
Danny Deever, by Damrosch
Queen of the Earth, by Pinsuti
Spring Song, by Weil
For All Eternity, by Mascheroni
Ave Maria, Gounod
The Nightingale and the Rose, by Barnby
Orpheus with his Lute, by Sullivan
Among the Lilies, by Dana 16 hours.

Group IV

Students may enter Group IV by examination only.

Out of the following list of compositions, a program lasting at least one hour must be prepared, committed to memory, and sung in public. One-half of this program may be selected from the list given in Group III.

Special advanced technique and tone coloring by teacher
Polonaise (from Mignon), by Thomas
Cavatina (from Faust), by Gounod
Bell Song (from Lakme), by Delibes
With Verdure Clad (from Creation), by Haydn
Toreador Song (from Carmen), by Bizet
Hear Ye, Israel (from Elijah), by Mendelssohn
Oh! Rest in the Lord (from Elijah), by Mendelssohn
Onaway, Awake Beloved! (from Hiawatha), by Coleridge Taylor
No Torments Now (from Le Cid), by Massenet
Waft Her, Angels (from Jephthah), by Handel
Be Thou Faithful Unto Death (from St. Paul), by Mendelssohn
Celestial Aida (from Aida), by Verdi
Lend Me Your Aid (from Queen of Sheba), by Gounod
Elsa's Dream (from Lohengrin), by Wagner
It Was Not so to Be (from the Trompeter), by Nessler
Sancta Maria, by Faure 16 hours.

For any composition listed in the above four groups, a composition of equal merit may be substituted.

VIOLIN

Assistant Professor Carpenter

Technical Work Required for the Degree of Bachelor of Music in Violin

Group I

Out of the following list of compositions, twelve must have been studied and four of these must have been performed in public.

R. Kreutzer, Forty Studies
H. Schradiek, School of Technics (Section 1)
Accolay, Concerto
G. R. Combs, Reverie
Vieuxtemps, Romanze
Vieuxtemps, Regrets
Singelee, Le Domino Noir
De Beriot, Seventh, Sixth and Fifth Air Varie
De Beriot, Scene De Ballet
Tschaikowsky, Melodie
Sarasate, Playera
Carl Reineke, Arioso
Handel, A Major Sonata 16 hours.

Group II

Out of the following list of compositions, twelve must have been studied and four of these must have been performed in public.

Fiorillo, Thirty-six Studies
De Beriot, Concertos Six and Seven
Viotti, Concerto Twenty-two
Spohr, Concerto Two
David, Andante and Scherzo
David, Russian Airs
Massenet, Meditation from "Thais"
Weiniawski, Romance sans Paroles
Weiniawski, Chanson Polonaise
Mlynarski, Mazurka
Schubert, The Bee
Rust, D Minor Sonata 16 hours.

Group III

Out of the following list of compositions, twelve must have been studied and four out of the twelve must have been performed in public.

Rode, Caprices
Mendelssohn, Concerto
Spohr, Concerto No. Eight and Nine
Bach, Sonatas for violin alone (at least two)
David, Concerto No. Five
M. Bruch, Concerto in G Minor
Weiniawski, Faust Fantasia
Weiniawski, Concerto II
Leonard, Military Fantasia
Beethoven, Concerto 16 hours.

Group IV

Students may enter Group IV by examination only.

Out of the following list of compositions, a program lasting at least one hour must be prepared, committed to memory, and performed in public. One-half of this program may be selected from the list given in Group III.

Leonard, Volumes I and II
Lipinski, Concerto Militaire
Molique, Concerto No. Five
Saint Saens, Concerto No. Three
Spohr, Concerto No. Seven
M. Bruch, Concerto in D Minor
M. Bruch, Scottish Fantasia
Saint Saens, Rondo Capriccioso
Vieuxtemps, Grand Concerto
Sarasate, Zigeuner weissen
Ernst, Fantasia on "Othello"
Ernst, Hungarian Airs
Bazzini, Ronde des Lutins
Bach, Sonatas for Violin alone (at least two not studied before)
16 hours.

For any composition listed in the above four groups, a composition of equal merit may be substituted.

ART

Assistant Professor Jacobson, Miss Peterson

Drawing and Painting

Courses Leading to the Certificate in Art

Assistant Professor Jacobson

Art 1a. Drawing from geometrical solids. Elementary sketching from costumed models, etc. Twelve hours a week in art studio. 4 hours.

Art 2b. Drawing from plaster casts, sketching from costumed models, and mechanical drawing. Twelve hours a week in art studio. 4 hours.

Art 3a. Drawing continued. Painting from still life. Sketching in colors from costumed models. Twelve hours a week in art studio. 4 hours.

Art 4b. Drawing continued. Painting from still life and color sketching continued. Clay modeling. Twelve hours a week in art studio. 4 hours.

Art 5a. Drawing from living models. Color sketching from living models. Landscape painting. Twelve hours a week in art studio and outdoor sketching. 4 hours.

Art 6b. Drawing continued. Landscape and portrait painting. Twelve hours a week in studio and outdoor sketching. 4 hours.

Art 7a. Five and twenty minute sketching in charcoal and oil, landscape and portrait painting from living models. Twelve hours a week. 4 hours.

Art 8b. Five and twenty minute sketching continued, oil portrait and landscape painting. Preparation of individual art exhibition. Twelve hours a week. 4 hours.

Art 9a. Perspective: The laws of perspective and their application to pictorial purposes. 2 hours.

Water-color and China Painting

Courses in water-color painting and china painting will be given to those desiring a knowledge of the technique of these two branches of art. No credit toward graduation will be given for this work.

History of Art

Assistant Professor Jacobson

Art 11a. The History of Painting: The history of painting to the end of the fifteenth century. Text and lectures. 2 hours.

Art 12b. The History of Painting: The history of painting from the end of the fifteenth century to the present time. A special study

will be made of modern painting. Richard Wuther's History of Modern Painting will be read as reference. Text, readings, and lectures. 2 hours.

Art 13a. The History of Sculpture: A brief survey of the history of sculpture from ancient times to the present. Text and lectures. 2 hours.

Art 14b. The History of Architecture: A brief course in the history of architecture from ancient times to the present. Text and lectures. 2 hours.

Domestic Art

Miss Peterson

Art 21. Theory of Esthetic Expression: A study of line, spaces, light-and-dark, proportion, and color, and the principles underlying the pleasing arrangement of these elements with reference to decorative art. Prerequisite, admission credit in drawing or Art 20. 2 hours.

Art 22b. Textiles: A study of the different materials used in costume and in home decoration to determine the important utilitarian and artistic qualities that affect the particular use of each. This course also includes a brief study of the manufacture and identification of the different materials. 2 hours.

Art 23a. Home Architecture: The evolution of the house; homes of primitive people; situation, surroundings, and construction of the house; skeleton plans; general study of the home from the artistic point of view. Prerequisite, admission credit in drawing or Art 20. 2 hours.

Art 24b. Elementary Design: A course including a discussion of and studio practice in the application of the principles of design in relation to home arts. Prerequisite, Art 21. 2 hours.

Art 25a. Costume Design: This course considers costume design from the standpoint of the controlling factors; principles of design and color, personality of the individual, purpose, and materials. Prerequisite, Art 21. (Art 22 recommended.) 2 hours.

Art 26b. Costume Design: Continuation of Art 25, as applied particularly to millinery, children's clothes, and underwear. Prerequisite, Art 25. 2 hours.

Art 27a. Home Decoration: Application of esthetic principles to home decoration; special consideration of walls, floors, and windows. Prerequisite, Art 21. (Art 25 recommended.) 2 hours.

Art 28b. Home Decoration: Continuation of Art 27. Special consideration of selection and arrangement of furniture, pictures,

plants, cut flowers, silverware, dishes, table linen, and table decoration. Prerequisite, Art 27. 2 hours.

PUBLIC SPEAKING

Assistant Professor Tanner, Miss Anderson

The courses in public speaking are designed to given training along two general lines: first, interpretative reading and dramatic presentation; and second, composition and delivery of public addresses, debating, extemporaneous speaking, and oratory.

Those desiring to prepare for platform work or the teaching of reading should take courses 1, 2, 7, 8, 9, and 10; those desiring to attain ease and naturalness in public address and a knowledge of the rhetoric of an oration should elect courses 1, 2, 5, 6, 15, 16, 17, 18, English 5, and Education 138.

Private lessons in expression may be arranged for by those who wish to do more extended work than is possible in connection with class recitation. Such a course may be taken through a period of three or four years, leading up to the presentation of dramatic readings, lecture-recitals, or lectures.

Recitals will be arranged throughout the year, which will afford opportunity for students to appear in public a number of times during each semester.

Public Speaking 1a. General Preparation: Correct breathing, refined pronunciation, distinct articulation. The principles of gesture, pitch, inflection, tone-color, and emphasis. Two sections. 2 hours.

Public Speaking 2b. General Preparation: A continuation of Public Speaking 1, together with oratorical delivery. Two sections. 2 hours.

Public Speaking 7a. Dramatic Reading: A study in the oral interpretation of the masterpieces of literature. Material will be selected which will serve the peculiar needs of each individual, and also serve as a repertoire. Prerequisites, Public Speaking 1 and 2. 2 hours.

Public Speaking 8b. Dramatic Reading: A continuation of Public Speaking 7. 2 hours.

Public Speaking 9a. Dramatic Presentation: The study and oral interpretation of modern dramas and of Shakespearian drama. Analysis of plot, characters, and incidents. Scenes from plays will be given in class, leading up to a final public presentation of an entire play. Prerequisites, Public Speaking 1 and 2. 2 hours.

Public Speaking 10b. Dramatic Presentation: A continuation of Public Speaking 9. 2 hours.

English 5a. Argumentation and Debating: (See College of

Arts and Sciences.) 4 hours.

Public Speaking 5a. Advanced Public Speaking: (See College of Arts and Sciences.) 2 hours.

Public Speaking 6b. Advanced Public Speaking: (See College of Arts and Sciences.) 2 hours.

Public Speaking 15a. Debating: (See College of Arts and Sciences.) 4 hours.

Public Speaking 16b. Debating: (See College of Arts and Sciences.) 2 hours.

Public Speaking 17a. Effective Speaking: (See College of Arts and Sciences.) 2 hours.

Public Speaking 18b. Effective Speaking: (See College of Arts and Sciences.) 2 hours.

Students taking private lessons in expression should also enroll in one of the courses listed below.

Public Speaking 13a. Vocal Interpretation: An intensive study of selections from Browning, Tennyson, Dickens, etc. 2 hours.

Public Speaking 14b. Vocal Interpretation: A continuation of Public Speaking 13, together with a study of some of the masters of interpretation. 2 hours.

For Undergraduates and Graduates

Education 138b. Teacher's Course in Public Speaking: (See Public Speaking, College of Arts and Sciences.) 2 hours.

CLASSICAL ARCHAEOLOGY

Professor Paxton

Classical Archaeology 4b. Greek Sculpture: A course in the history, principles, and development of Greek sculpture. Tarbell's History of Greek Art must be in the hands of each member of the class, but the instruction will consist largely of formal and informal lectures, illustrated by photographs and the lantern. Required readings in Murray's The Sculptures of the Parthenon, Furtwaengler's Masterpieces of Greek Sculpture, Waldstein's Essays on the Art of Phidias. 4 hours.

ENGLISH

Professor Brewer

English 1. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence. Daily and fortnightly themes. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it. The course is given in thirteen sections. Professor Brewer, Professor Hadsell, Assistant Professor Ra-

mey, Mr. Morgan, Mr. Smith, Mr. W. S. Campbell, Mr. L. Q. Campbell, Mr. Frierson. 4 hours.

English 2. First Principles of English Composition: Long and short themes at stated intervals. A study of selected examples of nineteenth century prose. Lectures on the use of words. English 2 is a continuation of and presupposes English 1. The course is given in thirteen sections. Professor Brewer, Professor Hadsell, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, Mr. W. S. Campbell, Mr. L. Q. Campbell, Mr. Frierson. 4 hours.

GERMAN

Professor House

German 1. Beginning German: Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Given in three sections in the first semester and in one section in the second semester. Professor House, Associate Professor Voss, and Assistant Professor Steitz. 4 hours.

German 2. Beginning German: This is a continuation of elementary German as given in German 1. Prerequisite, German 1, or equivalent. Given in three sections in the second semester, and in one section in the first semester. Professor House, Associate Professor Voss, and Assistant Professor Steitz. 4 hours.

HISTORY

Professor Gittinger

History 159a. History of Greece: The oriental nations and Greece through the Persian invasions. The development and spread of Greek civilization to the Roman conquest. Professor Gittinger. 4 hours.

History 160b. History of Rome: A study of Roman origins and the development of Roman character. The growth of Roman power over the Mediterranean world and the foundation of the Empire. The first four centuries of the Christian era. Special attention will be given to the causes of the decay of ancient civilization. Professor Gittinger. 4 hours.

PHYSICAL EDUCATION

Professor Soutar, Miss Revell

Courses for Men

Physical Education Ia: Consists of a definite "day's order" of

exercises, supplemented by light apparatus work and indoor and outdoor games. Required of freshmen. Professor Soutar. 1 hour.

Physical Education 2b. A continuation of Physical Education 1. Required of freshmen. Professor Soutar. 1 hour.

Courses for Woman

Physical Education 51a. Consists of tactics, calisthenics, light apparatus work, games, and folk dances. Required of freshmen. Miss Revell. 1 hour.

Physical Education 52b. A continuation of Physical Education 51. Required of freshmen. Miss Revell. 1 hour.

PHILOSOPHY AND PSYCHOLOGY

Professor Phelan, Assistant Professor Brooks

Philosophy 1a. Elements of Psychology: This is an introductory course aiming to give the student a survey of the principles of psychology, either as a part of a liberal education or as a preparation for professional study in medicine, law, etc. The following topics will be treated: sensation, attention, habits, association of ideas, perception, memory, imagination, reasoning, instinct, feeling, emotion, volition, and personality. Lectures, recitations, assigned readings, reports, and experimental work. Pillsbury's Essentials of Psychology. Students of maturity, graduates of normal schools and teacher training departments, and those having experience in teaching, should take Philosophy 51 instead of Philosophy 1. Assistant Professor Brooks. 4 hours.

Philosophy 109b. Esthetics: A study of the more important esthetic theories from Plato to the present time, together with some experimental investigation of the psychological principles of esthetics, and reconstructive study of the theory of art, including the sense of beauty and the art impulse. Gordon's Esthetics. Assistant Professor Brooks. 2 hours.

ROMANCE LANGUAGES

Professor Dora, Associate Professor Gimeno

French

French 1a. Beginning French: Essentials of grammar, practice in colloquial French, prose composition, reading of easy texts. Special attention will be given to the French verb and to word order. Fraser and Squair's French Grammar, Guerber's Contes et Legendes, first and

second parts, Talbot's Le Francais et Sa Patrie, and Halevy's L'Abbe Constantin. Given in two sections. Professor Dora. 4 hours.

French 2b. Intermediate French: Systematic study of grammar, French conversation, sight reading, parallel work. Fraser and Squair's Grammar, Cameron's Contes de Daudet, Merimee's Carmen, Scribe et Legouve's Bataille de Dames. Given in two sections. Professor Dora. 4 hours.

Italian

Italian Ia. Elementary Italian: Grammar, composition, and reading of modern authors. Associate Professor Gimeno. 4 hours.

Italian 2b. Elementary Italian: Continuation of Italian 1. Associate Professor Gimeno. 4 hours.

THE SCHOOL OF LAW

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

JULIEN CHARLES MONNET, A. M., LL. B.
Dean of the School of Law, Professor of Law.

HENRY HUBBARD FOSTER, A. B., LL. B.
Professor of Law.

*JOHN BEGG CHEADLE, A. B., LL. B.
Professor of Law.

VICTOR HENRY KULP, Ph. B., J. D.
Professor of Law.

LYMAN P. WILSON, B. S., J. D.
Professor of Law.

JOSEPH WARREN MADDEN, A. B., J. D.
Professor of Law.

Special Lecturers

ROBERT LEE WILLIAMS, A. M., LL. D.
Governor and Ex-Chief Justice of the Supreme Court, Lecturer on the Oklahoma Constitution.

MATTHEW J. KANE.
Chief Justice of the Supreme Court.

JOHN F. SHARP, LL. B.
Vice-Chief Justice of the Supreme Court.

RALPH E. CAMPBELL, B. S., A. B.
United States District Judge for the Eastern District of Oklahoma.

D. A. RICHARDSON.
Ex-Judge of the Criminal Court of Appeals.

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*On leave of absence, 1915-16.

J. H. Keaton, B. S., LL. B.
Ex-Judge District Court. Ex-Associate Justice of the Supreme Court of the Territory of Oklahoma.

Charles B. Ames, A. B., LL. B.
Ex-Supreme Court Commissioner.

Malcolm E. Rosser, LL. B.
Ex-Supreme Court Commissioner.

S. Prince Freeling, B. S., A. B., LL. B,
Attorney General of Oklahoma.

Charles West, A. B.
Ex-Attorney General.

George A. Henshaw, LL. B.
Member of Oklahoma Corporation Commission.

Lloyd A. Roland, A. B., LL. B.
Of the Oklahoma Bar. Lecturer on Oil and Gas Law.

Herbert Delavan Mason, LL. B.
Of the Oklahoma Bar.

H. H. Rogers, B. S.
Of the Oklahoma Bar.

R. A. Kleinschmidt, B. L., LL. B,
Of the Oklahoma Bar.

Frank Wells, LL. B.
Of the Oklahoma Bar.

C. G. Horner.
Of the Oklahoma Bar.

Clinton Orvin Bunn.
Of the Oklahoma Bar.

W. C. Jackson.
Member of the State Industrial Commission.

THE SCHOOL OF LAW

The School of Law was organized in the fall of 1909 in response to a general demand that the university should provide opportunities and facilities for legal training equal to the best afforded elsewhere. Its aim is to inculcate a sound knowledge of the common law and equity, of English and American modifications in both substantive and adjective law, of constitutional law and federal procedure, and of the statutes, decisions, and practice of the state of Oklahoma. It is now generally conceded that such a result can be attained more successfully in a law school than elsewhere. The busy lawyer finds little time for the systematic instruction of the student in his office. The result is that the study tends to become desultory and unprofitable. In a law school the student has the constant help and direction of a body of trained teachers devoting their time and thought to his welfare. He has the inspiration that comes from friendly rivalry with his fellow students in the class rooms, in the quiz clubs, moot courts, and practice courts. He has the advantage of a more extensive library and of encouragement and special assistance in original investigation.

That such is the view of lawyers and judges generally is evidenced by the fact that a large and constantly increasing majority of candidates now come to the bar through the medium of law schools. Much may be said for the practical possibilities of office training, but law schools are more and more attempting, and with increasing success, to supply their former deficiencies in this regard. It is also true that those defects were never as great as has sometimes been alleged; and while it is possible though inconvenient for the young lawyer to supply them, it is nearly impossible for him to supply, after beginning actual practice, the systematic knowledge of the fundamental principles of law which the law school gives him the opportunity to acquire.

INSTRUCTORS

The School of Law, except as to the courses given by the special non-resident lecturers, is conducted by instructors who give practically their whole time and attention to university work. It is certain that the best results can be obtained in no other way. This is confirmed by the experience of the leading law schools of the country, all of

which now place their work of instruction on this basis. The teaching of law is in itself a scientific vocation requiring all of one's energies.

METHODS OF INSTRUCTION

Instruction in the class room is by comment, quiz, and colloquy. It consists largely of the analysis and discussion of cases. Instead of placing before the student a set of legal principles which he is required to learn, the much more difficult task is assigned him of reading the actual opinions contained in the reports and ascertaining therefrom the law involved. He is then required to apply that law to other cases, both hypothetical and actual. In so doing he is both assisted and criticised by the instructor who guides and co-ordinates the discussion toward a definite end. It is believed that by this method the power of legal reasoning, discrimination, and generalization is most fully developed, and at the same time the student is obliged to exercise the same mental processes and follow the same methods of argument as those required by the skillful advocate. Copious references are continually made for extensive side reading, and students are constantly encouraged to use the library.

In the practice court, in the courses in civil procedure and criminal law and procedure, and elsewhere when deemed necessary, emphasis is laid on the law of this jurisdiction. The aim is to fit the student generally for practice in any state and to fit him especially for practice in the West and Southwest.

EXAMINATIONS

At the middle and end of each year careful examinations are given, designed to test the student's ability to apply his knowledge. Failures or conditions in more than one-third of the work carried will sever the student's connection with the school. It is within the discretion of the law faculty to reinstate such students on proper petition and showing. A student who receives a failure in any course must take the course over. All conditions received in either semester must be removed at examinations held for that purpose at the opening of the school the following September. Students should arrange in advance for such examinations, which will be given but once and which will not be given to students enrolling late. Third-year students will be given an opportunity to remove their first semester conditions at the time of the regular second-semester examinations at the end of the year. In order to pass such examinations for the removal of conditions the student is required to manifest a higher proficiency than is sufficient in the original examination. Students failing to take the reg-

ular examinations or to remove their conditions will receive the grade "F." No special examinations will be held.

ENROLLMENT

For information about enrollment, see "Method of Enrollment" under "General Information."

NEW LAW BUILDING

Monnet Hall, the new law building costing $125,000.00, has been occupied since the opening of the session in September, 1913. It is 132 feet long and 55 feet wide with additional 14-foot entrance projections on the east and west. It is built in solid Bedford stone, its architectural lines following in the main those of University Hall. It is centrally located overlooking the oval, and constitutes one of the wings of the permanent group of buildings of which University Hall is the center. It has three stories and a basement and contains every feature necessary for a modern law school. This building is one of unusual beauty, solidity, and convenience. It is fireproof throughout. This building together with the provision made by the governing authorities of the university for large additions to the law library, and the law recently enacted providing for the exchange of Oklahoma law books with other states for the benefit of the law school library, places the School of Law on an equal footing with the state university law schools of other leading states and assures its rapid development and prosperity.

LIBRARY

The law library, constantly growing, contains several thousand volumes. These books have been carefully selected and the list contains most of the essentials. Other installments will be procured from time to time, as it is the purpose of the school to build up rapidly a library that will answer all the purposes of legal study and investigation. The leading law journals are kept constantly on file. A member of the law faculty has general supervision of the library, and student assistant librarians are in charge to give needed information and maintain order. The library is open during the day and in the evening. Students in the School of Law also have access to the general university library, and have all the advantages and privileges of other students in the university.

BULLETIN BOARD

A bulletin board is maintained on which all official notices are posted, and all such notices are considered personal notices to the student or students concerned.

SPECIAL LECTURES

Short courses of lectures will be delivered by members of the supreme court, criminal court of appeals, and by prominent judges, attorneys and state officials. These courses are required of first-year students; second and third-year students may attend them.

PRACTICE COURT

In addition to the courses in pleading and practice, and the practical suggestions given throughout the courses by the the regular instructors and the special lecturers, a practice court is maintained in order to afford the student an opportunity of acquainting himself with the regular sequence of steps in litigation and of learning by actual experience what actions or proceedings should be brought, how to bring them, and how to handle the case until its close. Students act as attorneys, sheriffs, clerks, parties, witnesses, jurors, etc., and every effort is made to reproduce the conditions of actual practice in the Oklahoma courts. This work is supplemented by lectures pointing out errors and discussing questions of procedure of a more general nature applicable also to other jurisdictions. The presiding instructor is an attorney of experience and the aim is to supply as far as possible an actual working knowledge of trial procedure so that a graduate on leaving the school will be prepared at once to enter upon all phases of the work of the profession.

Third-year men act as leading counsel, second-year men as junior counsel, and first-year men as jurors, officers, etc. Such practice court work is required of all students, and first-year men may be given one hour's credit each semester for this together with the courses of special lectures.

LITERARY SOCIETIES

Students are encouraged to take an active part in the law literary societies, and to organize quiz clubs and club courts for legal discussion. There are a number of law literary societies, club courts, and student bars that are very active and profitable organizations for practice in argumentation and the presentation and trial of questions of law.

PRIZES

American Law Book Company Prize: The American Law Book Company offers to a third-year student a prize consisting of the Cyclopedia of Law and Procedure to be awarded at the discretion of the law faculty. This prize, valued at over $200, the faculty has decided to award at the time of graduation to the most meritorious student in the third-year class, taking into consideration the entire

course. The award will be based on grades in examinations, classroom proficiency, ability in logical and succinct statement, interest displayed in club courts and other law school activities, use of the library, and strength of character.

The Callaghan & Company Prize: Callaghan & Company, Law Publishers, of Chicago, offer the Cyclopedic Law Dictionary as an annual prize to the student in the second-year class who attains the highest proficiency and the best general average for the year.

The Blackstone Institute Prize: The Blackstone Institute of Chicago offers Modern American Law, a fifteen-volume legal encyclopedia, valued at $75, as an annual prize to the third-year student presenting the best thesis on some local or special jurisdiction subject designated by the faculty.

For description of other prizes available to law students see scholarships and prizes, under "General Information."

PHYSICAL EDUCATION

All students in the School of Law, who have not had one year of college work, or work in some other law school entitling them to one year's advanced standing, are required to take physical training to the extent of two hours during their course under the direction of the department of physical education. Such "hour" represents approximately three hours of exercise a week during a period of time equal to one semester. Students engaging in special athletic activities are, with the consent of the head of the department of physical education, allowed to substitute these for the regular physical training. This rule with reference to physical training is believed to make for well-balanced educational development.

ADMISSION AND GRADUATION

THREE-YEAR COURSE

The work of the School of Law extends through three college years. There are three classes: the First-Year Class, Second-Year Class, and Third-Year Class. Lectures and recitations are held on five days in the week, principally in the usual morning hours. Students may enter at the beginning of either semester. Late registration should be avoided.

ADMISSION

Applicants for admission to the School of Law must be at least eighteen years of age and must present evidence of having completed fifteen units of acceptable entrance credit. A unit is the standard amount of work required in a secondary school subject given thirty-six weeks with five recitation periods a week of at least forty-five minutes each. Thus fifteen units represent an ordinary four years' high school course.

The following units are required for admission to the School of Law:

English	3 units
Mathematics	2 units
*Electives	10 units
Total	15 units

*A description of all work that may be offered to satisfy the required or elective units, as well as a statement of the ways in which credit may be secured for work done in high school, may be found under the head of "Admission."

SPECIAL STUDENTS

Applicants, not less than 21 years of age and not candidates for the degree, who do not possess the above educational qualifications for admission of regular students, may be admitted to the courses in the School of Law, provided they can satisfy the dean that they are prepared to carry the work successfully. Such students will be expected to conform to the same requirements as to attendance and examination and will be entitled to the same privileges as regular stu-

dents. Certificates stating the branches completed and the standing attained will be given to such students who have been in residence for a semester.

Such special students who have completed the curriculum and have been in residence three years may be recommended for a degree by special action by the law faculty, provided that they have displayed unusual ability and scholarship.

ADVANCED STANDING

Applicants qualified to enter the School of Law as candidates for a degree, who have satisfactorily completed one or more years of resident work in a law school of good standing having a three years' course, will be given equivalent rank in this school upon presenting properly authenticated certificates of such work. The right is reserved to give credit only on examination. All persons who intend to apply for advanced standing under the above rule should forward or present their credentials to the dean at least one week before the opening of the particular session which they desire to attend.

Such certificate should show the length of time in semester hours given to each subject, the books used as the basis of instruction, the method of grading used in such school, the grades made by the applicant, and whether the school has a three years' course. Credit will never be given for more than two years' work done in other schools. No credit will be given for reading or work done elsewhere than in an approved law school.

GRADUATION

The degree of Bachelor of Laws (LL. B.) is conferred upon all regular students not less than twenty-one years of age who have completed the prescribed work of the course. This course requires three years for its completion and no student is allowed to graduate except after three years of actual residence, unless in case of admission to advanced standing, in which case he must likewise have spent sufficient time in some other acceptable law school having a three years' course, to amount to a total of three years when added to the time spent here. The time spent in residence at this law school must in every instance be at least the last year. In exceptional cases the degree may be conferred on special students. See provisions as to special students.

LAW ELECTIVES—ADDITIONAL WORK

Under certain circumstances seniors in the College of Arts and Sciences may elect all or part of their last year's work in the School of Law in such a way as to enable them to secure the B. A., and the LL. B.

degrees in six years instead of the seven regularly required. The following regulation applies to such students together with all others pursuing courses in the School of Law, viz: No student in the School of Law who is taking the full course in law shall be allowed to take additional courses elsewhere at the same time except upon permission of the dean and petition to the faculty. No student shall be entitled to take such additional work as a matter of course, and no such petition will be granted unless he can convince the faculty that it will not decrease the amount of time spent upon his legal studies and that it will be for his best interest and the best interests of the School of Law. Students enrolled in the School of Law for more than half of the full law course shall likewise be entitled to take additional work elsewhere only on the above conditions.

ADMISSION TO BAR

Under statutory authority the Supreme Court of this state has prescribed and published rules governing admission to the bar. These rules require that the candidate must be of good moral character and over twenty-one years of age; and that he shall satisfactorily answer the written interrogatories propounded covering the subjects enumerated. These subjects are all included in the curriculum of the School of Law. As to educational qualifications and length of the period of legal study required, candidates are referred to the rules. Examinations are held at convenient intervals and are conducted by a regular commission of bar examiners duly appointed by the Supreme Court.

By a ruling of the State Bar Commission, graduates of the School of Law are admitted to the bar without examination. They may then be admitted on motion to practice law in the federal courts of this state.

EXPENSES

Tuition is free in the School of Law, as in all other departments of the university, to residents of Oklahoma. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

The fees and deposits payable by law students are included in the general list in this catalogue. For full information see "Fees and Deposits" under "General Information."

BOARD, ROOMS, AND BOOKS

Board, including furnished rooms, can be had for from $4.00 to $6.00 a week. The average cost of living is as low in Norman as in

any other town of its size in the state. Board alone costs from $3.25 to $4.50. Rooms for two may be secured for $6 to $14 a month.

The cost of books used in the School of Law is about $35 a year.

If further information is desired as to any of the matters set forth in this catalogue, inquiries should be addressed to

The Dean of the School of Law,
Norman, Oklahoma.

CURRICULUM

The hour which constitutes the unit of credit as used in this catalogue except with reference to physical education is understood to mean one lecture hour a week, or its equivalent, for one semester.

It is desired that every student who enters the School of Law shall take full and not partial work, unless the circumstances be exceptional. A member of the first-year class will not be permitted to take any regular course of the second and third year, and a member of the second-year class will not be permitted to take third-year courses unless for special cause shown and then only by permission of the dean.

Instruction is so arranged as to present fundamental subjects first, followed by specialized subjects later.

FIRST-YEAR SUBJECTS

First Semester

Elementary Law: This course is designed to give the student an initial general survey of the entire body of the law in order that he may more intelligently comprehend the work in the other courses. Robinson's Elementary Law. Professor Madden. 2 hours.

Contracts: Mutual assent; offer and acceptance; consideration; contracts under seal; rights of beneficiaries; rights of assignees; joint and several contracts; conditional contracts; illegality; impossibility; duress; discharge. Williston's Cases on Contracts. Professor Monnet. 4 hours.

Torts: Trespass to person and property; excuses for trespass; conversion; legal cause; negligence; duties of land owners; dangerous occupations; deceit; defamation; slander; libel; malice; malicious prosecution; inducing breach of duty; competition; strikes; boycotts; combinations. Ames and Smith's Cases on Torts. Professor Madden. 2 hours.

Property I: Distinction between real and personal property; personal property; transfer of rights; bailments; tenures; estates; seisin; statute of uses; natural rights; easements; covenants; rents; landlord and tenant; emblements; fixtures. Gray's Cases on Property, Vols. I and II. Professor Foster. 4 hours.

Special Lectures: Courses of lectures on a variety of subjects

will be given by special lecturers, for which one hour's credit may be allowed, together with practice court services. 1 hour.

Physical Education Ia: Consists of a definite "day's order" of exercises, supplemented by light apparatus work and indoor and outdoor games. Required of freshmen. Professor Soutar. 1 hour.

Second Semester

Contracts: Continuation of course outlined in the first semester. Williston's Cases on Contracts. Professor Monnet. 2 hours.

Common Law Procedure: Forms of action; motions and demurrers; defects in form and substance; defaults; dilatory pleas; confession and avoidance; cross demands; replications; further pleadings; amendments. A number of lectures in the course will also be given on equity pleading. Sunderland's Cases on Common Law Pleading. Professor Wilson. 2 hours.

Torts: Continuation of course outlined in the first semester. Professor Madden. 2 hours.

Criminal Law and Procedure: Criminal acts; attempts; consent; criminal intent; justification; parties; agency; accessories; jurisdiction; murder; manslaughter; larceny; burglary; other crimes; criminal procedure. Beale's Cases on Criminal Law, and the Oklahoma cases, penal statutes, and statutes of criminal procedure. Professor Foster. 4 hours.

Domestic Relations: Contract to marry; breach of promise; common law marriage; capacity; consent; husband and wife; wife's contracts; wife's property; wife's person; torts by each; divorce; grounds for granting and refusal; alimony; parent and child; maintenance; tort; legitimacy; infancy; contracts and torts; insanity; drunkenness; aliens. Woodruff's Cases on Domestic Relations. Professor Kulp. 2 hours.

Special Lectures: Continued as indicated in the first semester. 1 hour.

Physical Education 2b: A continuance of Physical Education 1. Required of freshmen. Professor Soutar. 1 hour.

SECOND-YEAR SUBJECTS

First Semester

Agency: Nature of relation; appointment; liabilities of principal; torts; crimes; admissions; liabilities of agent; parties to writings; undisclosed principal; obligation between principal and agent; delegation of agency; termination; ratification. Wambaugh's Cases on Agency. Professor Kulp. 2 hours.

Equity: Nature of jurisdiction; specific performance; affirmative contracts; negative; third persons; consequences of specific perform-

ance; partial performance; consideration; marketable title; statute of frauds; mistake; hardship; mutuality; specific reparation; waste; disturbance of easements; nuisance; monopoly rights. Ames' Cases in Equity Jurisdiction. Professor Monnet. 2 hours.

Evidence: Admissibility; relevancy; circumstantial; qualification; impeachment; admission; real evidence; documents; hearsay rule; exceptions; dying declarations; against interest; pedigree; subscribing witness; regular entries; reputation; records; order of evidence; opinion; privileged communications; burden of proof; judicial notice. Wigmore's Cases on Evidence. Professor Wilson. 4 hours.

Property 2 (Including Wills): Acquisition of real property inter vivos; statute of limitations; prescription; releases; surrenders; boundaries; estates created; easements created; covenants of title; execution of deeds; acquisition after death; wills; making revocation and republication; lapsed legacies; administration; payment of debts; marshalling. Gray's Cases on Property, Vol. III, and Costigan's cases on wills. Professor Foster. 2 hours.

Mortgages: Legal mortgage; title theory; lien theory; equitable mortgages; absolute deed; conditional sale; reservation of title; after acquired property; subsequent advances; priority between mortgage liens; rights to possession; receipt of rents and profits; right to redeem; purchase of equity of redemption; clogging the equity of redemption; consolidation of mortgages. Wyman's Cases on Mortgages. Professor Monnet. 2 hours.

Bailments and Carriers: The nature of public service; the classes of occupations embraced; the peculiar obligations; to serve all with reasonable facilities, at a reasonable price and without discrimination; the special obligations of bailees and carriers. Wyman's Public Service Corporations. Professor Madden. 2 hours.

Second Semester

Sales: Sales of goods when something remains to be done; when nothing remains; goods not specified; subsequent appropriation; reservation of jus disponendi; C.O.D.; fraud; retention of possession; delivery; factor's liens; stoppage in transitu; warranty; statute of frauds. Williston's Cases on Sales. Professor Madden. 4 hours.

Code Pleading and Practice: One form; special proceedings; real party in interest; joinder of plaintiffs and defendants; petition; ultimate facts; union of causes of action; answer; new matter; equitable defenses; counterclaims; reply; demurrer. A number of lectures will also be given on brief making. Sunderland's Cases on Procedure

and the Oklahoma statutes and decisions on civil procedure. Professor Wilson. 2 hours.

Equity: Continuation of course described in the first semester. Ames' Cases in Equity Jurisdiction. Professor Monnet. 2 hours.

Agency: Continuation of course described in the first semester. Wambaugh's Cases on Agency. Professor Kulp. 2 hours.

Property 2 (Including Wills): Continuation of course described in the first semester. Professor Foster. 2 hours.

Suretyship: Kinds of suretyship; statute of frauds; surety's defenses; surety's right to subrogation; indemnity; contribution; exoneration; creditor's right to surety's securities. Ames' Cases on Suretyship. Professor Monnet. 2 hours.

THIRD-YEAR SUBJECTS

First Semester

Bills and Notes: Formal requisites; acceptance; indorsement; transfer; purchase for value without notice; overdue; extinguishment; obligations of parties; checks; diligence; presentment, dishonor, protest, notice; the negotiable instruments law. Ames' Cases on Bills and Notes. Professor Kulp. 4 hours.

Constitutional Law: Nature of the constitution; relation of the states to the federal government; departments of government; taxation; commerce; police power; bankruptcy; currency; implied powers; powers of the executive; the judicial department; checks and balances; government of the territories; state comity; civil rights; political privileges; protection of contracts and property; due process of law; the status of recently annexed island territory. Wambaugh's Cases on Constitutional Law. Professor Foster. 2 hours.

Trusts: Nature and requisites; express, resulting, constructive, charitable; appointment of trustee; nature of cestui's interest; transfer by trustee or cestui; cestui's interest how affected by death, marriage, or bankruptcy of trustee or cestui; duties of trustee; removal; resignation; accounting. Ames' Cases on Trusts. Professor Madden. 2 hours.

Damages: Exemplary; liquidated; nominal; direct; consequential; avoidable; counsel fees; certainty; compensation; physical and mental suffering; aggravation and mitigation; value; interest; special rules in certain tort and contract actions. Mechem and Gilbert's Cases on Damages. Professor Kulp. 2 hours.

Practice Court (Including Oklahoma Practice): Drawing, criticising, and discussing pleadings; commencement of actions; issuance and service of process; motions; issues of law or demurrers; introduction of evidence; arguments of counsel; instructions to jury; verdict

and judgment; motions for new trial; exceptions; appeal. In the first semester some use will be made of Sunderland's Cases on Trial Practice. Professor Wilson. 4 hours.

Second Semester

Corporations: Distinction between corporations and partnerships; disregarding the corporate fiction; formation of corporation, powers; what are corporate acts; de facto corporations; collateral attack; ultra vires; promoters; directors; rights of minority shareholder; creditors; watered stock; transfer; ownership by corporation of shares of its own or other corporate stock; validity of voting trusts. Canfield and Wormser's Cases on Corporations. Professor Kulp. 4 hours.

Conflict of Laws: Comity; territorial jurisdiction; domicile; taxation; jurisdiction in rem and in personam; marriage; legitimacy and adoption; movables and immovables; marital property; intestate and testamentary succession; place of contracting; interpretation, effect, and discharge of contracts; administration of estates; wardships; judgments, their nature, obligation, and effect. Beale's Cases on Conflict of Laws, Shorter Selection. Professor Monnet. 2 hours.

Property 3: Illegal conditions and restraints; forfeiture and restraints on alienation; priority; fraudulent conveyances; purchases for value; registration; effect of notice; drafting of real estate papers. Gray's Cases on Property, Vol. VI. Professor Foster. 2 hours.

Partnership: Nature of a partnership; formation of partnership; firm name and good will; mutual rights and duties; actions between partners at law and in equity; powers and liability of partners; dissolution; debts; distribution of assets. Gilmore's Cases on Partnership. Professor Madden. 2 hours.

Practice Court: Continuation of the course outlined in the first semester and trial of cases. Professor Wilson. 4 hours.

THE SCHOOL OF MEDICINE

FACULTY

For addresses see "Officers of Administration and Instruction."

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

LEROY LONG, M. D.
Dean of the School of Medicine, Professor of Surgery.

EDWIN DEBARR, Ph. D.
Vice-President of the University, Professor of Chemistry.

HENRY HIGGINS LANE, Ph. D.
Professor of Zoology.

†*WALTER LEANDER CAPSHAW, M. D.
Professor of Anatomy.

LOUIS ALVIN TURLEY, A. M.
Professor of Histology and Pathology.

ARCHA KELLY WEST, M. D.
Professor of Medicine.

ROBERT MAYBURN HOWARD, M. D.
Professor of Surgery.

EDMUND SHEPPARD FERGUSON, M. D.
Professor of Ophthalmology.

JOHN WILLIAM RILEY, M. D.
Professor of Genito-Urinary Surgery.

HORACE REED, M. D.
Professor of Surgery.

JOHN ARCHER HATCHETT, M. D.
Professor of Obstetrics

ABRAHAM LINCOLN BLESH, M. D.
Professor of Surgery.

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*On leave of absence, 1915-16.
†Deceased, December 25, 1915.

LAUREN HAYNES BUXTON, M. D., LL. D.
Professor of Otology, Rhinology, and Laryngology.

GAYFREE ELLISON, B. S., M. D.
Professor of Bacteriology.

EDWARD FRANCIS DAVIS, M. D.
Associate Professor of Ophthalmology.

JOHN SMITH HARTFORD, M. D.
Professor of Gynecology.

GEORGE ALTHOUSE LAMOTTE, B. L., M. D.
Associate Professor of Medicine.

LEWIS JEFFERSON MOORMAN, B. S., M. D.
Professor of Medicine.

LEONARD BLAINE NICE, Ph. D.
Professor of Physiology.

LEA ARMISTEAD RIELY, A. M., M. D.
Associate Professor of Medicine.

HARRY COULTER TODD, M. A., M. D.
Associate Professor of Otology, Rhinology, and Laryngology.

ANTONIO DEBORD YOUNG, M. D.
Professor of Nervous and Mental Diseases.

RICHARD GRAY SOUTAR, B. A.
Professor of Physical Education.

HOWARD STORM BROWNE, B. A., Ph. C., M. S.
Associate Professor of Materia Medica.

SAMUEL ROBERT CUNNINGHAM, M. D.
Associate Professor of Gynecology.

ROBERT LORD HULL, A. B., M. D.
Associate Professor of Orthopedic Surgery.

EVERETT SAMUEL LAIN, M. D.
Associate Professor of Dermatology, Electro-Therapy, and Radiography.

ROBERT ELMORE LOONEY, M. D.
Associate Professor of Obstetrics.

MILLINGTON SMITH, M. D.
Associate Professor of Clinical Surgery.

WILLIAM MERRITT TAYLOR, B. S., M. D.
Associate Professor of Pediatrics.

ARTHUR WEAVER WHITE, M. A., M. D.
Professor of Medicine.

JOHN MOSBY ALFORD, M. D.
Associate Professor of Medicine.

JOHN W. DUKE, M. D.
Professor of Nervous and Mental Diseases,

JOHN FREDERICK KUHN, Ph. G., M. D.
Assistant Professor of Surgery.

JOSEPH THOMAS MARTIN, A. M., M. D.
Assistant Professor of Medicine.

JOSEPH FIFE MESSENBAUGH, M. D.
Assistant Professor of Children's Diseases.

§FRANK BRUNER SORGATZ, M. D.
Assistant Professor of Medicine.

‡CURT OTTO VON WEDEL, JR., M. D.
Assistant Professor of Surgery.

LEIGH FESTUS WATSON, Ph. G., M. D.
Assistant Professor of Surgery.

ARTHUR ANDERSON WILL, M. D.
Assistant Professor of Rectal Surgery.

WILLIAM JONES WALLACE, Ph. C., M. D.
Assistant Professor of Genito-Urinary Diseases.

FLOYD JACKSON BOLEND, Ph. C., M. D.
Assistant Professor of Medicine.

THOMAS CRAIG BURNS, M. D.
Assistant Professor of Nervous and Mental Diseases.

CHARLES DUNCAN FERGUSON, M. D.
Assistant Professor of Ophthalmology.

LEILA EDNA ANDREWS, M. D.
Assistant Professor of Pediatrics.

JOHN ARTHUR RECK, M. D.
Assistant Professor of Gynecology.

W. EUGENE DIXON, M. D.
Assistant Professor of Otology, Rhinology, and Laryngology.

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§Assistant Professor of Pathology and Clinical Microscopy for 1915-16
‡Acting Professor of Anatomy, 1915-16.

Rex George Bolend, B. S., M. D.
Instructor in Medicine, Hospital Anaesthetist.

William Alonzo Fowler, L. I., M. D.
Instructor in Obstetrics.

Andrew Merriman Young, M. D.
Instructor in Obstetrics.

Cyril Ebert Clymer, M. D.
Instructor in Surgery.

Cariel J. Fishman, Ph. C., B. S., M. D.
Instructor in Medicine.

George Hunter, M. D.
Instructor in Obstetrics.

Lucy Renette Hill, R. N.
Superintendent, University Hospital, Instructor in Nursing.

John Paine Torrey, M. D.
Instructor in Physical Diagnosis.

Stephen Harry Graham, M. D.
Assistant in Anatomy.

THE SCHOOL OF MEDICINE

The first and second years of the School of Medicine were established at Norman in 1900. The third and fourth years were established at Oklahoma City in 1910. The curriculum covers four annual sessions of thirty-six weeks each. The work of the first and second years is conducted at Norman, and comprises work in the fundamental branches of anatomy, neurology, embryology, physiology, organic chemistry, physiological chemistry, pharmacology, bacteriology, pathology, and materia medica. The work of the third and fourth years is conducted in Oklahoma City, and includes instruction in the clinical branches of therapeutics, clinical pathology, medicine, surgery, obstetrics, and the special lines of practice.

The school is a member of the Association of American Medical Colleges and conforms strictly to all the rules and requirements of that organization.

REQUIREMENTS FOR ADMISSION

Applicants for admission to the School of Medicine must be of good moral character and at least eighteen years of age. Men and women are admitted on equal terms.

The scholarship requirements comprise as a minimum:

(1) Graduation from an accredited high school offering fifteen units.

The following table shows the 15 high school units required:*

Subjects	Units
English	3
Algebra	1
Plane Geometry	1
History	1
Foreign Language (German or French preferred)	2
Physics	1
Electives	6
Total	15

(2) The completion of one year of college work including a

*For complete description of subjects accepted for admission see "Admission."

year's work in physics, chemistry, biology, and a reading knowledge of at least one modern language besides English, preferably German or French, provided, that a student who has had a year of high school physics, with laboratory, may satisfy the requirement in physics by completing one semester (4 hours) of college physics which does not duplicate the work done in the high school.

Beginning January 1, 1917, all applicants for admission to the School of Medicine must have completed two years of college work including a year's work in the subjects mentioned above.

In order to fulfill the requirement of one year of college work the student should take the following courses:

First Semester		Second Semester	
Course	Hours	Course	Hours
Chemistry 1	4	Chemistry 2	4
Botany 1 or Zoology 1	4	Zoology 2	4
Physics 1	4	Physics 2	4
*Modern Language	4	*Modern Language	4
Physical Education 1	1	Physical Education 2	1

*German or French.

Students who possess only the fifteen units of secondary work required for admission to the School of Medicine may secure the college work conveniently in the College of Arts and Sciences of the University of Oklahoma.

Deficiencies

Admission to the School of Medicine will not be granted to any student deficient in more than eight hours of the required college work, and no deficiency in the eight hours of college chemistry will be permitted. Beginning January 1, 1917, no deficiencies in any of the required subjects mentioned above will be permitted. All deficiences in the college work must be made up before entering upon the second year of the medical course. No student will be permitted to enter the third year deficient in any of the work of the first two years.

BACHELOR OF SCIENCE COURSE IN MEDICINE

Students are advised to secure two years of college work before entering the School of Medicine. The medical examining boards of many states now require at least two years of college work in addition to a medical course as a prerequisite for a license to practice. The number of states making this requirement is rapidly increasing.

Students who have completed at least sixty academic hours in the College of Arts and Sciences may enter the School of Medicine and

after completing the first two years' work, be recommended for the degree of Bachelor of Science (in Medicine) in the College of Arts and Sciences. Subjects given in the School of Medicine will not be counted in making up the sixty hours required in the College of Arts and Sciences.

In addition to satisfying the entrance requirements of the College of Arts and Sciences, the student must complete:

(a) The prescribed freshman work;

(b) The subjects prescribed for admission to the School of Medicine;

(c) And in addition to (a) and (b) must work out sufficient hours within Groups I and III to make a total of not less than sixty academic hours in the College of Arts and Sciences. If the number of hours needed under (c) is eight or less they should all be worked out in one group.

The following outline of courses will fulfill these requirements:

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
Chemistry 1	4	Chemistry 2	4
‡Modern Language	4	‡Modern Language	4
Botany 1 or Zoology 1	4	Zoology 2	4
Physical Education	1	Physical Education	1
Total	17	Total	17

Second Year

Physics 1	4	Physics 2	4
Modern Language (Cont.)	4	Modern Language (Cont.)	4
*Mathematics or Ancient Language	4	*Mathematics or Ancient Language	4
Group electives	4	Gov't 1 or History 9 or 10	4
Physical Education	1	Physical Education	1
Total	17	Total	17

‡German or French.

*Students offering four units of Latin or three and one-half units of mathematics for admission may substitute modern language or other subjects.

Students taking the combined course in Arts and Sciences and Medicine do not need to major but must apply for admission to the combined course at the beginning of their sophomore year.

ADMISSION TO ADVANCED STANDING

Advanced standing in the School of Medicine may be obtained only by transfer of credit previously earned in medical schools whose standards are equivalent to those of this university. Entrance examinations will not be given to any student to make up failures or conditions in medical subjects secured before entering this school. Credit for such subjects may be earned only by taking them over again in class.

Students from other medical schools whose standards are fully equivalent to those of this institution may receive credit for time spent and for work successfully completed in such institutions, provided it is equivalent to corresponding work in the medical course in this university.

Such a student should furnish, when he makes application for admission:

(1) A statement of honorable dismissal from the medical school last attended.

(2) An explicit statement in regard to his preliminary education before beginning the study of medicine. This education must be equivalent to that required of the members of the class to which admission is desired.

(3) Documentary evidence from previous medical college (or colleges), showing time credit and studies successfully completed, this latter statement setting forth the exact number of hours lecture and hours laboratory given to each subject.

The credit claimed in each subject must be passed upon by the Committee on Admission and Advanced Standing.

EXAMINATIONS AND CLASS STANDING

Each session is divided into two semesters of eighteen weeks each. Examinations are held at the end of the first semester during the first week of February, and at the end of the session during the first week of June. For subjects completed in either term the examination at the end of that term is final.

At least eighty per cent of the scheduled hours in any course for which a student is registered must be attended in order to receive credit for the course.

If a student fails to take the examination at the regular scheduled time, without having been excused by the professor in charge, a condition in the subject will be given. Such a condition may be removed only by arrangement with the professor in charge.

Passing Grades

Students' grades in all courses are filed with the registrar and the records in his office are the official records of the university. The passing grades used are: A, A minus, B, B minus, C, C minus. A is the highest passing mark; C minus, the lowest.

Conditions and Failures

A student who fails to complete the work of any course will receive a mark of F, D, or I. "F" means failure. "D" and "I" both mean conditioned. "D" means conditioned because of poor quality of work for which no credit is granted except upon re-examination and no grade higher than a "C" can be given. "I" means that a good student with a class standing of "C minus," or better, has failed to complete some small portion of his assigned work. Instructors giving an "I" must state upon the reverse side of the report card the portion of the work incomplete.

Conditions of "D" or "I" must be removed within a year if credit for the work is desired. A mark of "F" is recorded for all "D's" not removed within this time.

A student who has failed in a required subject, must if possible, register for it the first time it is given. A student failing in any course cannot receive credit for it until it has been taken again in class.

A student with a failure in more than three courses should not enter the next higher class, but should do the entire year's work over.

Excessive Failures

Students receiving a mark of failure or condition in more than one-third of the work in which they are enrolled in any semester forfeit their connection with the university. It is within the discretion of the faculty to reinstate such students on proper petition and showing. In applying this rule, marks of "I" are not counted.

ENROLLMENT

No regular student will be permitted to register in the School of Medicine after the third week of the semester except by unanimous consent of the faculty.

The medical students who enroll at Norman for the first and second year will find a statement of the plan of enrollment under "General Information."

Registration of Oklahoma City Students

Students of the third and fourth year must submit their credentials and register at Norman.

Expenses at Oklahoma City

As the work of the curriculum in the School of Medicine demands all the time and energy of the student, he should not attempt to earn any part of his expenses while attending this school.

Books should be bought only on the advice of the instructor, and only the latest editions, as the advance in the sciences is so rapid that an old medical book soon becomes practically useless.

FEES AND DEPOSITS

Tuition is free in all departments of the university to residents of Oklahoma. All students will be held responsible for damage to or loss of equipment and instruments, and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

The fees and deposits payable by medical students are included in the general list in this catalogue. For full information see "Fees and Deposits," under "General Information."

REQUIREMENTS FOR GRADUATION

A candidate for the degree of Doctor of Medicine (M. D.) must be at least twenty-one years of age, and of good moral character. He must have studied medicine for four years and must have received credit for at least four annual courses of medical instruction in four different calendar years at approved medical schools, of which the last annual course must have been studied in this school. At least forty-five months must have elapsed between the beginning of his first course of medical lectures and the date of graduation. He must have complied with all the rules and regulations of this school and must have paid all fees. He must have successfully completed all of the work required and have attended at least eighty per cent of the exercises in each annual course. He must have passed, successfully, final examination, both written and practical, in all subjects taught in the senior year.

He must attend the graduating exercises and receive his diploma in person, unless excused for cause by special action of the faculty.

MEDICAL FACILITIES AT NORMAN

The medical facilities at Norman include the laboratories of chemistry and pharmacy with rooms for work in general, organic, and physiological chemistry, qualitative and quantitative analysis, pharmacy, and pharmacognosy. Medical laboratories with rooms for normal and pathological histology, bacteriology, materia medica, and physiology are located in Science Hall. Embryology is given

in the department of zoology. The anatomical building contains a large dissecting room and a laboratory for osteology, a preparation room, and a recitation room in which are the osteological collection, many of the anatomical charts and models, and the departmental library. The departmental library, intended for daily reference, is accessible at all times.

Oklahoma Hospital for Insane

The Oklahoma Hospital for the Insane is located at Norman. There are seven hundred beds, and the daily census has shown a full quota of patients. The faculty and students have the privilege of studying there all forms of mental diseases and many rare conditions. There is also a weekly medical and surgical clinic for the special benefit of the advanced medical students.

CLINICAL FACILITIES AT OKLAHOMA CITY

Oklahoma City, with a population of over 88,000, offers excellent opportunities for clinical instruction. The city is well supplied with hospitals. A great deal of emergency work occurs besides the usual diseases incident to a city of this size. Clinical instruction is given wholly in small sections so that every student has opportunity for personal observation of cases shown.

Medical Building

The medical school building in Oklahoma City, a fireproof four-story structure, is located on Stiles between Second and Third Streets. It is modern in every particular. On the ground floor are the main operating room, a smaller operating room, and a number of examining rooms. On this floor are located the departments which take care of out-door dispensary, there being from forty to fifty out-patients daily. Students of the senior class are assigned to the different departments and assist in the treatment of patients.

On the second floor are the lecture rooms, the main clinical laboratory, the X-Ray plant, the library, and the museum. Every facility is offered for the convenience of students. On this floor also are located the dean's office and the office of the clerk of the school.

The upper floors are devoted to hospital work, all the patients in this building being used for clinical purposes.

Nurses' Home

The nurses' home, formerly a private residence, is located at 317 East Fourth Street, and adjoins the University Hospital. It is an imposing brick building of colonial style, standing on high ground.

University Hospital

The State University Hospital, with a capacity of sixty beds, was opened January 17, 1912. It is located in a central and easily accessible portion of the city, on the east side, in a quiet neighborhood, in an elevated section. It is arranged with separate wards for white and colored, male and female patients, and with private rooms. There are twenty-six ward beds and thirty-four private room beds. All of the ward beds are used for clinical purposes, and a majority of the private patients are entirely willing to be demonstrated before the class and are so used. The hospital has three modern, sanitary operating rooms, with the necessary sterilizing and wash-rooms, all equipped with the most up-to-date apparatus. Private entrance for students has been arranged so that they have ready access at all times to the wards and operating rooms without the necessity of passing through that portion of the building devoted to the private rooms. Students in rotation serve as history clerks and keep the records for all patients in the institution.

Maternity Hospital Advantages

The university has control of the clinics at the Holmes Home of Redeeming Love, the Nazarene Home and the city Lying-in Hospital. These hospitals furnish 150 obstetrical cases a year which are used for clinical purposes by the university.

Out-Patient Obstetrical Clinics

An out-patient obstetrical clinic has been organized which offers professional services in confinement cases at home. A dispensary station has been opened in the south side of town, in charge of a competent matron, where calls will be received and registered. Each case is attended by one of the attendant obstetricians and two students of the senior class.

St. Anthony's Hospital

St. Anthony's Hospital, located in the residence section, on the west side of the city, is owned by the Sisters of St. Francis. It is the largest hospital of its kind in the state, having 130-bed capacity. It is well arranged for student instruction, with three operating rooms and several demonstration rooms properly furnished, and large and convenient wards for both sexes.

The staff is composed exclusively of the members of the faculty of this school; teaching privileges have been graciously accorded by the Sisters, and clinics are held regularly in this institution.

SYNOPSIS OF COURSES

First Year

First Semester

		Lect. Hrs.	Lab Hrs.
Anatomy 1	Osteology	16	64
Anatomy 2	Dissection	32	112
Histology 1	Normal Histology	32	112
Chemistry 121	Organic Chemistry	64	---
Chemistry 21	Quantitative Chemistry	--	32

Second Semester

Anatomy 3	Dissection	32	112
Embryology 1	Medical Embryology	32	96
Chemistry 124	Physiological Chemistry	32	192

Second Year

First Semester

Anatomy 4	Cross Section, Relational Anatomy	32	112
Bacteriology 1	General Bacteriology	32	112
Physiology 6	Human Physiology	48	96
Materia Medica 6		64	---

Second Semester

Physiology 7	Human Physiology	48	96
Pharmacology 1	Pharmacology and Toxicology	32	96
Physical Diagnosis 1		--	32
Pathology 1 and 2	General Pathology	64	144
Pathology 7	Parasitology	10	20
Pharmacy 7	Pharmacy Methods	--	64
Hygiene 1	Hygiene and Sanitation	64	---

Third Year

First Semester

Medicine 1	General Medicine	64	---
Medicine 5	Physical Diagnosis	16	64
Medicine 7	General Pediatrics	48	---
Medicine 9	Children's Diseases	16	---

		Lect. Hrs.	Lab. Hrs.
Medicine 19	Therapeutics	32	--
Medicine 28	Clinical Pathology	--	32
Surgery 1	Principles of Surgery	48	--
Surgery 3	Fractures and Dislocations	32	--
Surgery 11	Operative Surgery	16	--
Obstetrics 1		32	--
Obstetrics 3		16	--
Gynecology 1		48	--
Gynecology 3	Clinical Gynecology	--	32
Genito-Urinary Surgery 1		--	32
Skin and Venereal Diseases 1		32	--
Genito-Urinary Diseases 1		--	16
Pathology 3	Clinical Microscopy	--	80

SECOND SEMESTER

Medicine 2	General Medicine	64	--
Medicine 6	Physical Diagnosis	16	64
Medicine 8	General Pediatrics	48	--
Medicine 10	Children's Diseases	16	--
Medicine 20	Therapeutics	32	--
Medicine 22	Medical Jurisprudence	16	--
Medicine 29	Clinical Pathology	--	32
Surgery 2	Principles of Surgery	32	--
Surgery 4	Tumors	16	--
Surgery 12	Operative Surgery	16	--
Surgery 16	Minor Surgery, Bandaging	8	8
Obstetrics 2		16	--
Obstetrics 4		32	--
Obstetrics 5	Obstetrical Demonstrations	--	32
Gynecology 4	Clinical Gynecology	--	32
Genito-Urinary Diseases 2		16	26
Genito-Urinary Surgery 2		--	32
Skin and Venereal Diseases 2		--	26
Pathology 4	Clinical Microscopy	--	80

Fourth Year

FIRST SEMESTER

Medicine 3	Clinical Medicine	116	--
Medicine 11	Clinical Pediatrics	26	--
Medicine 13	Nervous & Mental Diseases	48	10
Medicine 23	Prescription Writing	16	--

		Lect. Hrs.	Lab. Hrs.
Medicine 21	Medical Ethics & Economics	16	--
Surgery 5	Surgical Diagnosis	16	--
Surgery 7	Regional Surgery	16	--
Surgery 9	Clinical Surgery	--	180
Surgery 13	Orthopedic Surgery	16	16
Surgery 15	Rectal Surgery	8	8
Gynecology 5	Clinical Gynecology	--	26
Eye Diseases 1		16	--
Eye Diseases 3	Clinic	--	16
Ear, Nose, and Throat Diseases 1		16	--
Ear, Nose, and Throat Diseases 3	Clinic	--	16
Pathology 5	Clinical Pathology	--	80
	SECOND SEMESTER		
Medicine 4	Clinical Medicine	--	116
Medicine 12	Clinical Pediatrics	--	26
Medicine 14	Nervous & Mental Diseases	48	10
Medicine 24	Prescription Writing	16	--
Medicine 26	Electro-Therapeutics	16	--
Medicine 27	Elec. Ther. and Radiog.	16	--
Surgery 6	Surgical Diagnosis	16	--
Surgery 8	Regional Surgery	32	--
Surgery 10	Clinical Surgery	--	180
Surgery 14	Orthopedic Surgery	16	16
Gynecology 6	Clinical Gynecology	--	26
Eye Diseases 2		16	--
Eye Diseases 4	Clinic	--	16
Ear, Nose, and Throat Diseases 2		16	--
Ear, Nose, and Throat Diseases 4	Clinic	--	16
Pathology 6	Clinical Pathology	--	80

SCHEDULE—FIRST YEAR—FIRST SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00		*Quantitative Chemistry				*Quantitative Chemistry
9 00	Organic Chemistry		Organic Chemistry	Organic Chemistry	Organic Chemistry	
10 00	Histology	Histology		Histology	Histology	
11 00	Histology	Histology	Histology	Histology	Histology	
1 30	Dissection	Dissection	Osteology	Dissection		
2 30	Dissection	Dissection	Osteology	Dissection	Osteology	
3 30	Dissection	Dissection	Osteology	Dissection	Osteology	
4 30						

*Either Tuesday or Saturday.

SCHEDULE—FIRST YEAR—SECOND SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.
9 00	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.	Physlg. Chem.
10 00	Embryology	Embryology		Embryology	Embryology	Physlg. Chem.
11 00	Embryology	Embryology	Embryology		Embryology	Physlg. Chem.
1 30	Dissection	Dissection		Dissection		
2 30	Dissection	Dissection		Dissection		
3 30	Dissection	Dissection		Dissection		
4 30						

SCHEDULE—SECOND YEAR—FIRST SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	Materia Medica		Materia Medica	Materia Medica	Materia Medica	Pharmacy Methods
9 00	Physiology		Physiology	Physiology		Pharmacy Methods
10 00	Bacteriology	Bacteriology		Bacteriology	Bacteriology	Pharmacy Methods
11 00	Bacteriology	Bacteriology	Bacteriology	Bacteriology	Bacteriology	Pharmacy Methods
1 30	Cross Section	Physiology Lab.	Cross Section	Physiology Lab.	Cross Section	
2 30	Cross Section	Physiology Lab.	Cross Section	Physiology Lab.	Cross Section	
3 30	Cross Section	Physiology Lab.	Cross Section	Physiology Lab.	Cross Section	
4 30						

SCHEDULE—SECOND YEAR—SECOND SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	Pharmacology	Physiology	Pharmacology	Pharmacology	Physiology	*Clinical Methods in Bacteriology
9 00	Pharmacology	Physiology Lab.	Pharmacology	Pharmacology	Physiology Lab.	*Clinical Methods in Bacteriology
10 00	Pharmacology	Physiology Lab.		Pharmacology	Physiology Lab.	*Clinical Methods in Bacteriology
11 00	Physical Diagnosis	Physiology Lab.	Physiology	Physical Diagnosis	Physiology Lab.	*Clinical Methods in Bacteriology
1 30	Hygiene	Hygiene	Pathology	Hygiene	Hygiene	
2 30	Pathology	Pathology	Pathology	Pathology	Parasitology	
3 30	Pathology	Pathology	Pathology	Pathology	Parasitology	
4 30	Pathology	Pathology	Pathology	Pathology	Parasitology	

*Elective

SCHEDULE—THIRD YEAR—FIRST SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00						Anatomy Lecture
9 00	Obstetrics	Physical Diagnosis	Genito-Urinary Surgery	Clinic Physical Diagnosis	Clinic Physical Diagnosis	Operative Surgery
10 00	Gynecology Clinic	Obstetrics	Gynecology Clinic	Obstetrics	Quiz Medicine	
11 00	Children's Diseases	Therapeutics	Children's Diseases	Therapeutics	Children's Diseases	
1 00	Clinical Microscopy	Clinical Microscopy	Clinical Microscopy	Clinical Microscopy	Clinical Microscopy	
2 00	Genito-Urinary Diseases	Skin and Venereal Diseases	Quiz Gynecology	Skin and Venereal Diseases		Clinics at Norman
3 00	Medicine	Surgery 3	Medicine	Surgery 3	Medicine	
4 00	Gynecology	Children's Diseases	Principles of Surg'y			

SCHEDULE—THIRD YEAR—SECOND SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	Obstetrical Demonstration	Blood, Lymph and Ductless Glands	G. U. Surgery	Clinic Physical Diagnosis	Clinic Physical Diagnosis	Operative Sugery
9 00		Physical Diagnosis				
10 00	Gynecology Clinic	Obstetrics	Gynecology Clinic	Obstetrics	Quiz Medicine	
11 00	Children's Dis.	Therapeutics	Children's Dis.	Therapeutics	Children's Dis.	
1 00	Clinical Microscopy	Clinical Microscopy	Clinical Microscopy	Clinical Microscopy	Clinical Microscopy	Operative Surgery
2 00	Clinical G. U. Diseases	G. U. Diseases	Minor Surgery	Quiz Surgery	Skin Diseases	
3 00	Medicine	Principles of Surg'y	Medicine		Medicine	
4 00	Obstetrics	Children's Diseases	Surgery 4	Medical Jurisprudence		

SCHEDULE—FOURTH YEAR—FIRST SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00 9 00	Surgical Clinic	Surgical Clinic	Surgical Clinic	Surgical Clinic	Surgical Diagnosis Surgical Clinic	Surgical Clinic
10 00	Medical Clinic	Medical Clinic	Medical Clinic	Medical Clinic	Gynecology Clinic	Regional Surgery
11 00	Clinical Pathology	Clinical Pathology	Clinical Pathology	Clinical Pathology	Clinical Pathology	
1 00	Dispensary	Dispensary	Dispensary	Dispensary	Dispensary	
2 00	Eye Clinic	Orthopedic Surgery	Ear, Nose, Throat Clinic	Clinic Children's Diseases	Orthopedic Clinic	
3 00	Prescription Writing	Nervous Diseases	Clinical Medicine	Medical Ethics	Medical Clinic	Clinics at Norman
4 00	Rectal Surgery	Eye Diseases	Nervous Diseases	Ear, Nose, and Throat Diseases	Nervous Diseases	

SCHEDULE—FOURTH YEAR—SECOND SEMESTER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 00	Surgical Clinic	Surgical Clinic	Surgical Clinic	Surgical Clinic	Surgical Diagnosis	Surgical Clinic
9 00					Surgical Clinic	
10 00	Medical Clinic	Medical Clinic	Medical Clinic	Medical Clinic	Gynecology Clinic	Regional Surgery
11 00	Clinical Pathology	Clinical Pathology	Clinical Pathology	Clinical Pathology	Clinical Pathology	
1 00	Dispensary	Dispensary	Dispensary	Dispensary	Dispensary	
2 00	Eye Clinic	Nervous Diseases	Clinical Medicine	Cl. Children's Dis.	Medical Clinic	Clinics at Norman
3 00	Prescription Writing	Orthopedic Surgery	Clinic Ear, Nose and Throat	Medical Ethics	Orthopedic Surg'y	
4 00	Regional Surgery	Eye Diseases	Nervous Diseases	Ear, Nose and Throat	Nervous Diseases	
7 00					Electro-Therapeutics	

DESCRIPTION OF COURSES

Courses marked a are first-semester courses. Courses marked b are second-semester courses.

ANATOMY

Assistant Professor von Wedel, Dr. Torrey, Dr. Graham

Anatomy 1a. Osteology: A complete study of the human skeleton. Each student is furnished a set of bones for individual study and drawings. Text, Cunningham. Lectures, recitations, and laboratory. Deposit required. Five periods.

Anatomy 2a. Dissection of the Upper Half of the Human Body: A body will be furnished to each two students. Text, Cunningham. Quizzes and laboratory work. Deposit required. Nine periods.

Anatomy 3b. Dissection of the Lower Half of the Body: A continuation of Anatomy 2. Deposit required. Nine periods.

Anatomy 4a. Cross Section, and Relational Anatomy Including the Brain: Serial sections of the human body will be studied and drawings of each section made. A thorough study of the gross anatomy of the brain with drawings of sections cut in different planes. Text, Cunningham. Lectures, recitations, and laboratory. Deposit required. Nine periods.

BACTERIOLOGY

Professor Ellison

Bacteriology 1a. General Bacteriology: This course includes a detailed study of the more important forms of pathogenic and non-pathogenic organisms, with methods of their isolation from body fluids, water, foods, etc., and their relation to human life. Lectures, laboratory, assigned readings, and reports. Required of medical students. Lectures and laboratory. Deposit required. Nine periods.

Bacteriology 6b. Clinical Methods: A course designed to familiarize the student with general laboratory methods; the use of instruments and apparatus, and making up laboratory solutions. Prerequisite, Bacteriology 1. Lecturesand laboratory work. Four periods.

CHEMISTRY

Professor DeBarr, Assistant Professor Porter

Chemistry 2la. Quantitative Chemistry: This course is given especially for medical students. It is a short course in quantitative analysis by gravimetric and volumetric methods. It embraces the study of gravimetric operations and processes and the preparation of standard solutions and their use in the estimation of substances studied in connection with physiological chemistry. Lectures and laboratory work. Prerequisite, Chemistry 1 and 2, or 3. Deposit required. Professor DeBarr. Six periods.

Chemistry l2la. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisites, Chemistry 5 and enrollment in 127. Assistant Professor Porter. Four periods.

Chemistry l24b. Physiological Chemistry: Physiological analysis. Lectures and laboratory. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. Fourteen periods.

EMBRYOLOGY

Professor Lane

Embryology lb. Medical Embryology: A study of oogenesis, spermatogenesis, maturation, fertilization, cleavage, formation of the germ-layers, and organogeny. Laboratory work upon the essentials of organogeny in the chick, pig, and man. For medical students only. Lectures, recitations, and laboratory. Deposit required. Eight periods.

HISTOLOGY

Professor Turley

Histology lb. Normal Histology: A study of the microscopic anatomy of animal tissues and organs; the principles of cytology and splanchnology with special emphasis on the human tissues and organs; and histologic technique. Deposit required. Lectures and laboratory. Nine periods.

HYGIENE

Professor Ellison

Hygiene la. Principles of Hygiene and Preventive Medicine: A course of lectures and assigned readings, taking up the subjects of ventilation, heating, water supplies, and sewage disposal and their relation to public health. Transmissible diseases and their epidemiology and control. Prerequisite, Bacteriology 1. Four periods.

MATERIA MEDICA

Associate Professor Browne

Materia Medica 6a. A study of the official drugs and other approved remedies, with reference to origin, preparation, dosage, and physiological action. The symptoms and treatment of poisoning, the writing of prescriptions, the dispensing and administration of remedies are considered. Medical Latin is included. Lectures and assigned readings. Four periods.

PATHOLOGY

Professor Turley, Assistant Professor Sorgatz

Pathology lb. General Pathology: A study of the abnormal functioning of the various organs of the body, the conditions producing disease, the efforts of the body to overcome disease and regenerate diseased tissues, disturbances in development, circulatory disturbances, retrogressive processes, progressive processes, inflammation, and secondary diseases. This course is the basis of advanced special, clinical, and diagnostic pathology. Lectures, recitations, and demonstrations showing gross and microscopic lesions in the human tissues. Prerequisite, Histology 1. Texts, Ziegler, and Mallory and Wright. Professor Turley. Four periods.

Pathology 2b. General Pathology; Laboratory work to accompany Pathology 1. A study with the microscope of pathological tissues and practice in the methods of diagnosis of diseased tissues. Professor Turley. Deposit required. Nine periods.

Pathology 3a. Clinical Microscopy: The principles of pathology are reviewed, especially with a view to practical application to laboratory diagnosis. Blood, urine, feces, gastric contents, sputum, etc., are examined. Methods of collecting materials and the simpler practical clinical methods of analysis are studied. It is the object of this course to prepare students for the thorough understanding of the laboratory aids in diagnosis in later courses. Five periods a week. Assistant Professor Sorgatz.

Pathology 4b. Clinical Microscopy: Continuation of Pathology 3. Five periods a week. Assistant Professor Sorgatz.

Pathology 5a. Clinical Pathology: This course consists of practical work in the clinical laboratory. Specimens from the hospital and dispensary patients are studied and discussed by the students. Further work in clinical methods is undertaken and autopsies, when available, are observed. The theories of serum work are taught and the Wassermann test and the Noguchi reaction demonstrated in a practical way. Special attention is paid to the interpretation of

the laboratory findings and to the relation of these findings to the clinical observations in the patient. Five periods a week. Assistant Professor Sorgatz.

Pathology 6b. Clinical Pathology: Continuation of Pathology 5. Five periods a week. Assistant Professor Sorgatz.

Pathology 7b. Parasitology: A study of the animal parasites with special reference to those affecting man. Required of medical students. To be taken in connection with Pathology 1. Lectures and laboratory, once a week for ten weeks. Deposit required. Professor Turley. No credit.

PHARMACOLOGY

Professor Nice

Pharmacology Ib. Pharmacology and Toxicology: Laboratory studies of the physiologic action of human remedies as verified by experiments. Deposit required. Eight periods.

PHARMACY

Associate Professor Browne

Pharmacy 7b. Pharmaceutical Methods: A course in elementary pharmacy for medical students. The student makes preparations of each pharmaceutical type contained in the United States Pharmacopoeia, as pills, powders, waters, decoctions, solutions, tinctures, emulsions, and liniments. Practice in prescription dispensing, and the making of stupes, poultices, plasters, and medicated baths. Recitations and laboratory work. Deposit required. Associate Professor Browne. Four periods.

PHYSICAL DIAGNOSIS

Dr. Torrey

Physical Diagnosis Ib. Diagnosis of the normal body preparatory to the larger course given in the third year. Lectures on the theory of physical diagnosis. The class will be given practice in small sections in actual examinations of normal bodies. Two periods.

PHYSIOLOGY

Professor Nice

Physiology 6a. General Physiology: A study of the functions of muscles, nerves, the central nervous system, and the special senses. Three lectures and two laboratory periods of three hours each per week; also eight special demonstrations of which the following are examples: motor localization in the cerebral cortex, the

activity of a decerebrate pigeon and the activity of a spinal mammal. Deposit required. Nine periods.

Physiology 7b. General Physiology: A study of the circulatory system, lymphatic system, body fluids and their regulation, digestive system, digestion, absorption, secretion, excretion, metabolism respiration, animal heat and its regulation. Three lectures and two laboratory periods of three hours each per week; also more than twenty special demonstrations of which the following are types: the function of the depressor nerve, the action of secretin and enterokinase, absorption from liver lymph channels. Required of medical students. Deposit required. Nine periods.

MEDICINE

Professors West, Moorman, Young, White; Associate Professors LaMotte, Riely, Taylor, Alford,; Assistant Professors Martin, Messenbaugh, Sorgatz, Burns, F. J. Bolend, Andrews: Dr. Fishman, Dr. R. G. Bolend

Medicine Ia. General Medicine: The course is prefaced by the history of the development of medical science. Special attention will be given to the new discoveries in medicine during the past twenty-five years, and the application of these discoveries to the prevention and cure of diseases. The whole subject of medicine is divided into three classes: infectious diseases, diseases of special organs, diseases due to faulty metabolism. Three lectures a week and one quiz. Dr. West, Dr. Fishman.

Medicine 2b. General Medicine: A continuation of Medicine 1. Three lectures a week and one quiz. Dr. West, Dr. Fishman.

Medicine 3a. Clinical Medicine: This course consists chiefly of bedside clinics. After eliciting the history and making the physical examination, the tentative diagnosis is made and discussed, special emphasis being placed on the essential characteristics of the disease in question. This is followed by a differential diagnosis and discussion of the varieties and special symptoms with reference to prognosis. Careful consideration is also given to the proper treatment of each case demonstrated.

A weekly clinical lecture by the case teaching method is given. Case histories are given out and written reports on diagnosis, prognosis and treatment, with full discussion, are required of each student. These are then discussed in class. Clinics are held twice a week at the bedside. Students in small groups are required to take a full history, make a careful physical examination and all necessary laboratory tests for diagnosis. This work is done before the class

meets to study the case. The students' mistakes are then publicly noted and corrected and the entire class is given an opportunity to verify the principal findings in the examinations. Opportunity is given to watch the effects of treatment adopted in each case. Each student is required also to spend twenty periods in the medical division of the dispensary, where his work in this important aid for diagnosis is reviewed by the members of the staff. Six periods a week and twenty periods of dispensary work. Dr. LaMotte, Dr. Riely, Dr. White, Dr. Martin.

Medicine 4b. Clinical Medicine: A continuation of Medicine 3. Six periods a week and twenty periods of dispensary work. Dr. LaMotte, Dr. Riely, Dr. White, Dr. Martin.

Medicine 5a. Physical Diagnosis: By actual practice on the normal subject, each student is required to become familiar with the fundamental methods employed in physical examination, and by these methods to determine the position, relation, and topography of the various organs of the body. Particular attention is given to the development of proper technique and of proper appreciation of the importance of a thorough, systematic examination in each case. In addition to the demonstration of instructive cases before the class, each student is required to make examinations, the teacher seeing that all signs and symptoms are noted. One lecture a week and four periods of clinical work. Dr. Moorman, Dr. White.

Medicine 6b. Physical Diagnosis: Continuation of Medicine 5. One lecture a week and four periods of clinical work. Dr. Moorman, Dr. White.

Medicine 7a. General Pediatrics: This is a didactic course consisting of lectures, recitations, and quizzes. The course embraces diseases of the new born, infant feeding, diseases of the gastro-intestinal and respiratory tracts, dietetics, diseases of nutrition, diseases of the nervous system, and therapeutics for infants and children. Three periods a week. Dr. Taylor, Dr. Andrews.

Medicine 8b. General Pediatrics: Continuation of Medicine 7. Three periods a week. Dr. Taylor, Dr. Andrews.

Medicine 9a. Acute Infectious Diseases of Children: Symptoms and methods of treating. One period a week. Dr. Messenbaugh.

Medicine 10b. Acute Infectious Diseases of Children: A continuation of Medicine 9. One period a week. Dr. Messenbaugh.

Medicine 11a. Clinical Pediatrics: The children's clinic is held one period a week. Each student is required to spend ten periods in the division of children's diseases in the dispensary, where he has

practical charge of the cases under the direction of an instructor. Dr. Taylor.

Medicine 12b. Clinical Pediatrics: A continuation of Medicine 11. One period a week and ten periods of dispensary work. Dr. Taylor.

Medicine 13a. Nervous and Mental Diseases: This course is designed to meet the requirements of the general practitioner. It includes both lectures and clinics. It begins with a general review of the anatomy and physiology of the nervous system. Then follows the general pathology of nervous diseases, and the neuroses. The latter part of the course is devoted to the study of derangements of the mind. Three periods a week and ten periods of dispensary work. Dr. Young, Dr. Burns.

Medicine 14b. Nervous and Mental Diseases: A continuation of Medicine 13. Three periods a week and ten periods of dispensary work. Dr. Young, Dr. Burns.

Medicine 19a. Therapeutics: In this course the student is taught not only pharmaco-therapy, but also the fundamental principles of vaccine and serum therapy, mechanotherapy, hydrotherapy, climatotherapy, and psychotherapy. Two periods a week. Dr. Alford.

Medicine 20b. Therapeutics: A continuation of Medicine 19. Two periods a week. Dr. Alford.

Medicine 21a. Medical Ethics and Economics: A discussion of the ethics and economics of the profession. One period a week. Dr. West.

Medicine 22b. Medical Jurisprudence: A discussion of the legal status of the physician. One period a week. Dr. Messenbaugh.

Medicine 23a. Prescription Writing: Practice in prescription writing. One period a week. Dr. Fishman.

Medicine 24b. Prescription Writing: A continuation of Medicine 23. One period a week. Dr. Fishman.

Medicine 25a. Diseases of the Blood, Lymph, and Ductless Glands: This course consists of didactic lectures. One period a week. Dr. West.

Medicine 26b. Electro-Therapeutics: One period a week. Dr. Lain.

Medicine 27b. Electro-Therapeutics and Radiography: The fundamentals of electricity as applied to therapeutics are given in an explicit and practical way by lectures and clinics. The aids given by the use of the galvanic, faradic, static, and high-frequency currents in so far as they have proven of greatest value will be demonstrated. The very important though limited use of the X-Ray as a therapeutic agent will be dwelt upon, with due precautions as to its handling. Radio-

graphing will be taught and demonstrated in such manner that students shall have a good working knowledge for future development and interpretation. Martin's Practical Electro-Therapeutics and X-Ray Therapy. One period a week. Dr. Lain.

Medicine 28a. Clinical Pathology: Two periods.

Medicine 29b. Clinical Pathology: Two periods.

SURGERY

Professors Long, Howard, Riley, Reed, Blesh; Associate Professors Hull, Lain, M. Smith; Assistant Professors Kuhn, von Wedel, Watson, Will; Dr. Clymer.

Surgery is taught in the recitation room, at the bedside, in the dispensary, at the hospital clinics, and by lectures. In the third year the work is largely didactic instruction. In the fourth year the work is given in regional surgery and the special branches.

Surgery 1a. Principles of Surgery: The principles of surgery will be taught by lectures and recitations. The course covers surgical pathology, the process of inflammation and repair of tissues, injuries of the soft parts, bones and joints, necrosis, and important surgical diseases. Two lectures a week and one quiz. Dr. Blesh.

Surgery 2b. Principles of Surgery: Continuation of Surgery 1. One lecture a week and one quiz. Dr. Blesh.

Surgery 3a. Fractures and Dislocations: A full series of didactic lectures illustrated by specimens and charts will be given on fractures and dislocations. Two periods. Dr. Blesh.

Surgery 4b. Tumors; A course of lectures on tumors, their characteristics, pathology, and differential diagnosis. One period a week. Dr. Reed. 1 hour.

Surgery 5a. Surgical Diagnosis: This course is devoted to surgical methods of diagnosis. Special emphasis is laid upon differentiation. One period a week. Dr. Reed.

Surgery 6b. Surgical Diagnosis: A continuation of Surgery 5. One period a week. Dr. Reed.

Surgery 7a. Regional Surgery: Regional surgery will include surgery of the head, neck, thorax, abdomen, extremities, and blood vessels. One period a week. Dr. Howard.

Surgery 8b. Regional Surgery; A continuation of Surgery 7. Two periods a week. Dr. Howard.

Surgery 9a. Clinical Surgery: Daily instruction, consisting of clinics, clinical lectures, and demonstrations. The student is required

to take case histories, assist in examination, and collect all data of value in arriving at a diagnosis. He is required to familiarize himself with the methods of preparation for operation, and to follow closely the post-operative course and after-treatment of the patient. In the operating room the clinician takes up little time with operative procedures as applied to operations, but lays great stress upon the indications for and the results of those procedures. As the object of this course is to train skillful general practitioners rather than specialists, emphasis is given to the subjects of etiology, pathology, symptomatology, and diagnosis. Twenty hours of work in the surgical department of the dispensary is also required of each student. Here the student has the actual care of the cases and does all the work of examination, diagnosis, and treatment under the supervision and direction of the instructor. Ten periods a week, and twenty periods of dispensary work. Dr. Howard, Dr. Reed, Dr. Blesh, Dr. M. Smith, Dr. Kuhn.

Surgery 10b. Clinical Surgery: A continuation of Surgery 9. Ten periods a week and twenty periods of dispensary work. Dr. Howard, Dr. Reed, Dr. Blesh, Dr. Kuhn, Dr. M. Smith.

Surgery 11a. Operative Surgery: In this course the student performs on the cadaver all the minor and major operations, approximately seventy in number. One period a week. Dr. von Wedel. Dr. Watson,

Surgery 12b. Operative Surgery: In this course the dog is used in order to familiarize the student with the handling of living tissues, the control of hemorrhages, the use of instruments and sutures under a rigid aseptic technique. Because of the many advantages of local anaesthesia it is used in the majority of operations, both major and minor. One period a week. Dr. von Wedel, Dr. Watson.

Surgery 13a. Orthopedic Surgery: Instruction in this subject consists of lectures, recitations, and clinics. Besides lectures descriptive of the diseases leading to deformities, all of the important conditions are demonstrated in the clinic. The mechanical principles involved in the correction of deformities are fully discussed and the appliances and methods of application are demonstrated. Two periods a week. Dr. Hull.

Surgery 14b. Orthopedic Surgery: Continuation of Surgery 13. Two periods a week. Dr. Hull.

Surgery 15a. Rectal Surgery: In didactic lectures and clinical work, diseases of the sigmoid, rectum, and anus will be covered. The special anatomy, physiology, and embryology of the lower bowel will be reviewed and instruments for examination will be demonstrated. The more common diseases seen in general practice, such as the inflammatory diseases, malignant and non-malignant growths, will be

studied. The latter part of the course will be devoted to operations, didactic and local anaesthesia being demonstrated. One period a week. Dr. Will.

Surgery 16b. Minor Surgery and Bandaging: The course in minor surgery includes lectures and practical discussions on the surgery the general practitioner sees in his office with special reference to minor injuries, the prevention of infection, the use of antiseptics, etc. Bandaging is demonstrated and individual instruction is given on the living subject. The course includes the use of plaster. One period a week. Dr. von Wedel.

Surgery 17a. Anaesthetics: A special course in anaesthetics will be given to seniors. Instruction in this course, treating especially of the choice and administration of anaesthetics, will consist of lectures, clinical demonstrations and supervision of the administration of anaesthetics by the students themselves. Each senior student, under the supervision of the instructor, will administer an anaesthetic in at least six cases before graduating. Dr. F. J. Bolend, Dr. R. G. Bolend.

OBSTETRICS AND GYNECOLOGY

Professors Hatchett, Hartford; Associate Professors Cunningham, Looney; Assistant Professor Reck; Dr. Fowler, Dr. Young, Dr. Hunter.

Obstetrics

Obstetrics 1a. The didactic work is given throughout the junior year and the clinical work chiefly in the senior year. Didactic lectures begin with the anatomy of the pelvis and the female generative organs in connection with the function of reproduction. A thorough course is given in embryology, tracing the changes in the ovum after fertilization and the development of the fetus. Ample time is devoted to the anomalies and the diseases of the fetal appendages. The physiology and diagnosis of pregnancy and the physiology and management of labor and the puerperium are treated fully. Two periods a week. Dr. Fowler.

Obstetrics 2b: A continuation of Obstetrics 1. One period a week. Dr. Fowler.

Obstetrics 3a: Pathological pregnancy, labor, and puerperium, and the diseases of the fetus are fully covered, with special reference to the complications of pregnancy, the management of difficult labor, postpartum hemorrhage, and puerperal infections. Operative obstet-

rics and the physiology and pathology of the new-born infant are also fully covered. One period a week. Dr. Hatchett.

Obstetrics 4b. A continuation of Obstetrics 3. Two periods a week. Dr. Hatchett.

Obstetrics 5b. A thorough course of clinical demonstrations with the manikin is conducted by the clinical lecturer, in which the students are individually practiced. Clinics are held in the State University Hospital and teaching privileges have been accorded by the Holmes Home of Redeeming Love, in the Nazarene home, and in the City Maternity Hospital. An out-patient clinical department has been organized which offers treatment in the homes of those who so desire. Each senior student is required to attend at least six cases of labor under the supervision of an instructor during the year. The clinical material in the three maternity hospitals and the out-patient obstetrical department furnish abundant material to meet this requirement. Two periods a week. Dr. Looney.

Gynecology

Gynecology 1a. The course treats of the physiology of the reproductive organs, etiology, symptoms, diagnosis, and treatment of medical and surgical diseases of women. Two lectures a week and one quiz. Dr. Hartford, Dr. Reck.

Gynecology 3a. Clinical Gynecology: Methods of examination, diagnosis, traumatism, and uterine deviations. Two periods a week. Dr. Hartford, Dr. Cunningham.

Gynecology 4b. Clinical Gynecology: A continuation of Gynecology 3. Two periods a week. Dr. Hartford, Dr. Cunningham.

Gynecology 5a. Clinical Gynecology: Operative gynecology. Each student must also do ten periods of work in the gynecological division of the dispensary. One period a week and ten periods of dispensary work. Dr. Cunningham.

Gynecology 6b. Clinical Gynecology: A continuation of Gynecology 5. One period a week and ten periods of dispensary work. Dr. Cunningham.

EYE, EAR, NOSE, AND THROAT DISEASES

Professors E. S. Ferguson, Buxton; Associate Professors Davis, Todd; Assistant Professor C. D. Ferguson

Eye Diseases

Eye Diseases 1a. Anatomy and Physiology of the Eye: Models, charts, and anatomical specimens will be used to acquaint

the student with the relation of the eye to the other parts of the head. One period a week. Dr. Buxton.

Eye Diseases 2b. Diseases of the Eye: This course will give special attention to the more common kinds of eye diseases met by the general practitioner. The students will be taught how to use the ophthalmoscope and will be given some practical instruction in refraction and correction of ocular errors. One period a week. Dr. E. S. Ferguson.

Eye Diseases 3a. Clinic in Eye Diseases: Clinical lectures will be given as well as instruction, in which the methods of examination and diagnosis are demonstrated on the living subjects. Students will assist at operations and whenever possible follow the cases during convalescence. One period a week. Dr. E. S. Ferguson, Dr. Buxton.

Eye Diseases 4b. Clinic in Eye Diseases: Continuation of Eye Diseases 3. One period a week. Dr. E. S. Ferguson, Dr. Buxton.

Ear, Nose, and Throat Diseases

Ear, Nose, and Throat Diseases Ia. Anatomy and Physiology of the Ear, Nose, and Throat: This course will cover in detail the anatomy, physiology, and pathology of the ear, nose, and throat. The object of this course is to give the students a good working knowlege of the diseases of these structures commonly met in general practice. One period a week. Dr. Davis.

Ear, Nose, and Throat Diseases 2b. A continuation of Ear, Nose, and Throat Diseases 1. One period a week. Dr. Davis.

Ear, Nose, and Throat Diseases 3a. Clinic in Ear, Nose, and Throat Diseases: Practical instruction will be given in the medical and surgical treatment of diseases of the ear, nose, and throat, and each student will be granted an opportunity to examine the patients personally, and to follow up the cases throughout their entire treatment. One period a week. Dr. Todd.

Ear, Nose, and Throat Diseases 4b. Clinic in Ear, Nose, and Throat Diseases: Continuation of Ear, Nose, and Throat Diseases 3. One period a week. Dr. Todd.

GENITO-URINARY, SKIN, AND VENEREAL DISEASES

Professor Riley, Associate Professor Lain; Assistant Professor Wallace

Skin and Venereal Diseases Ia. Lectures on skin and venereal diseases. Two periods a week during the first semester. Dr. Lain.

Skin and Venereal Diseases 2b. Clinic in skin and venereal

diseases. One period a week and ten periods of dispensary work. Dr. Lain.

Genito-Urinary Surgery Ia: Clinic in genito-urinary surgery. Two periods a week. Dr. Riley.

Genito-Urinary Surgery 2b; Clinic in genito-urinary surgery. Two periods a week. Dr. Riley.

Genito-Urinary Diseases Ia; One period a week. Dr. Wallace.

Genito-Urinary Diseases 2b: Genito-urinary diseases. Two periods a week, and ten periods of dispensary work. Dr. Wallace.

TRAINING SCHOOL FOR NURSES

The university offers at the State University Hospital in Oklahoma City, in connection with the School of Medicine, a three years' course of training in nursing upon the satisfactory completion of which a university diploma will be conferred, with the title of Graduate Nurse. This course is open only to women.

The State University Hospital is duly registered as a training school for nurses and accepted as such by the Oklahoma state board for examination and registration of nurses. A nurse who has received her certificate according to the provisions of this board shall be styled and known as a Registered Nurse.

It is the aim of the school to fit a body of intelligent young women for one of the noblest, if not the noblest, professions open to women, to provide the city and the state with trained nurses of the highest standard, and to provide skilled workers to be co-laborers with the physician in caring for the sick and afflicted.

The profession of nursing cannot have ideals too high, or intelligence and culture too great, for it demands and commands the highest and best that can be put into it.

Admission

Applicants for admission to the school must possess good health and good moral character. Single women between twenty and thirty years of age are preferred. The minimum educational requirement is seven units as follows; but high school graduates and women of superior education and culture, who are otherwise qualified, are preferred.

Subject	Units
English	2
Algebra	1
History	1
Latin	1
Electives	2
Total	7

For complete explanation of subjects required for admission see "Admission."

The number of applicants admitted will be limited to the needs

of the hospital. When vacancies occur, women who cannot meet fully the educational requirements, but who possess in marked degree other qualifications for efficiency, may be received at the discretion of the Dean of the School of Medicine.

Upon the approval of the superintendent of the hospital, candidates will be received for a probationary term of three months. At the end of the probationary term, if services and examinations have been satisfactory, probationers will be admitted as pupil nurses after signing an agreement to remain in the school for three years, including probationary term, subject to its rules and regulations. They will be given an allowance of $5.00 a month during the probationary term, $8.00 a month during the remainder of the first year, $10.00 a month during the second year, and $12.00 a month during the third year. This allowance is to cover the cost of uniforms and other necessary expenses of the period of training.

In illness all student nurses are cared for gratuitously, but time lost through this or any other cause must be made up at the end of the term.

Plan of Instruction

The lectures and class work are given by different members of the faculty of the School of Medicine and by the superintendent. The general plan of instruction (subject to variations) is as follows:

The first three months are devoted to a course of preliminary study and practice covering theory and practice ot nursing (elementary), elementary bacteriology, household economy and serving of foods, hospital ethics. Classes and demonstrations are held during the entire preliminary course, in addition to which the students are taught the practical part of nursing work and are made familiar with the various appliances and utensils used in nursing.

The object of the preliminary course is to provide the student, before she is brought into contact with the patient, with some of the fundamental knowledge upon which nursing depends and without which she is unprepared for the practical work. At the end of the probation period those accepted as regular pupils in the school are placed on duty in the wards of the hospital for further work and study.

COURSE OF STUDIES

First Year

Practical Work

Practical work of preliminary course as previously outlined, and in addition:

Medical nursing: Including the nervous and the insane; fevers (non-contagious) and all the general medical affections of men and women.

Surgical nursing: Including gynecology and orthopedics.

The practical work of this year is supplemented by clinics and demonstrations.

Night duty is given.

Theoretical Work

Preliminary nursing as previously outlined, and in addition:

Principles of nursing.

Fever nursing, including contagions.

Study of drugs and their administration.

Reviews and examinations.

Second Year

Practical Work

Operating-room experience.

Service in dispensary.

Special nursing.

Obstetrical nursing.

Two or three months of night duty are given in the second year.

Theoretical Work

Massage.

Study of drugs and their administration, continued.

Obstetrical nursing.

Anatomy and physiology.

Clinics and lectures.

Reviews and examinations.

Third Year

Practical Work

Special nursing.

Nursing sick children.

Diet, kitchen experience, including the modification of milk.

Executive work (for pupils who show fitness).

In charge of wards.

One or two months of night duty are given in the third year.

Theoretical Work

Dietetics.

Lectures on special nursing subjects.

Lectures on subjects allied to nursing.

Ethics of private nursing.

In both theory and practice, variation from the above as to time and order may be made whenever necessary.

Lecture and class work includes: lectures on special nursing sub-

jects; ethics of private nursing; nursing sick children; reviews and examinations.

An affiliation has been formed with the State Hospital for the Insane, whereby an exchange of senior nurses may be made for a three months' period. This will offer to nurses of the Training School, who may wish to make a specialty of insane and nervous cases, an opportunity for special training in a high-class institution devoted exclusively to these maladies.

The pupil nurse who has availed herself of the above opportunities for work and study, who has acquired concise, systematic, and clear methods of expression, should be able to fill the responsible position of Registered Nurse.

GRADUATE WORK FOR NURSES

The State University Hospital offers to a limited number of nurses, graduated from recognized schools, a three months' course in surgical, gynecological, and operating-room work and the technique of clinical pathology, as examination of urine, blood, etc.

In addition to the lectures given by the attending surgeons and pathologist, and practical work, a small salary with board will be given. At the end of the term a certificate will be given. For further information apply to the Superintendent of the Hospital, 325 E. Fourth Street, Oklahoma City.

THE SCHOOL OF PHARMACY

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

CHARLES HOWARD STOCKING, Ph. C., B. S.
Dean of the School of Pharmacy, Professor of Pharmacy.

EDWIN DEBARR, Ph. D.
Vice-President of the University, Professor of Chemistry.

ALBERT HEALD VAN VLEET, Ph. D.
Professor of Botany.

JAMES WELLINGS STURGIS, Ph. D.
Professor of Latin.

SAMUEL WATSON REAVES, Ph. D.
Professor of Mathematics.

GUY YANDALL WILLIAMS, Ph. D.
Professor of Physical Chemistry.

*THEODORE HAMPTON BREWER, M. A.
Professor of English Literature.

LUCILE DORA, M. A.
Professor of Romance Languages and Literatures.

CHARLES HENRY TAYLOR, M. S.
Professor of Geology.

WILLIAM PETER HASEMAN, Ph. D.
Professor of Physics.

†ROY TEMPLE HOUSE, A. M.
Professor of German.

GAYFREE ELLISON, B. S., M. D.
Professor of Bacteriology.

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*On leave of absence, 1915-16.
†On leave of absence, second semester, 1915-16.

Richard Gray Soutar, B. A.
Professor of Physical Education.

Howard Storm Browne, B. A., Ph. C., M. S.
Associate Professor of Materia Medica.

Patricio Gimeno, B. A.
Associate Professor of Romance Languages.

Earle Sellers Porter, M. A.
Assistant Professor of Chemistry.

Rosetta Angeline Briegel, B. A.
Assistant in Chemistry.

THE SCHOOL OF PHARMACY

The School of Pharmacy, organized in 1893, is an integral part of the University of Oklahoma. It was the first school added to the university after the organization of the College of Arts and Sciences, and since its organization it has maintained a steady growth. The school offers thorough and practical courses in all the various subjects pertaining to pharmacy, and prepares the student to pursue any of the various branches of the profession.

Pharmacy is the science and art of preparing, compounding, preserving, and dispensing medicines, whether reference is made to the profession in the sense of either retail or wholesale relationship. The necessity for technical training in this subject is apparent to all who are seeking to prepare themselves for the more responsible positions, open only to those who are thoroughly trained as prescriptionists, manufacturing pharmacists, or industrial and analytical chemists.

It is the aim of the School of Pharmacy to co-operate with the pharmacists of the state in their efforts to elevate and maintain the profession of pharmacy.

Registration as Pharmacists

No person can legally practice pharmacy in Oklahoma unless he is registered by the State Board of Pharmacy. The board meets regularly on the first Tuesday and Wednesday of January, of April, of July, and of October, to examine candidates who desire to obtain a license to practice pharmacy in the state. Graduates from the School of Pharmacy of the university who have had one year of experience outside of the school course are registered without examination on application, payment of fee, and presentation of their diplomas.

Three Plans of Work

In accordance with the requirements of the New York State Department of Education and the recommendations of the American Conference of Pharmaceutical Faculties, this school offers three separate plans of work. The two years' plan comprises four semesters of four and one-half months each. It equips the student for practical work with the minimum preparation. The three years' plan comprises six semesters of four and one-half months each and is designed more especially for those who wish to enter the commercial field of phar-

maceutical chemistry or food and drug analysis. It also enables the pharmacist to strengthen his professional relations by the practice of urinary, bacteriological, and toxicological analyses for the physician. The four years' plan includes academic as well as professional courses, and is designed to give the student a liberal education as well as to fit him for work demanding a broader scientific and professional knowledge than may be acquired in a shorter time.

DEGREES

The degree of Graduate in Pharmacy (Ph. G.) will be conferred upon a student who completes the plan of study outlined to cover two years.

The degree of Pharmaceutical Chemist (Ph. C.) will be conferred upon a student who completes the plan of study outlined to cover three years, such work to include the courses necessary to the completion of the two years' plan.

The degree of Bachelor of Science in Pharmacy (B. S. in Pharmacy) will be conferred upon a student who completes the plan of study outlined to cover four years with a total of not less than 124 hours of credit, such work to include the courses necessary to the completion of the three years' plan.

ADMISSION

Applicants for admission to the School of Pharmacy should be at least seventeen years of age. Admission may be either by certificate or by examination. Graduates of affiliated high schools may present their certificates to the registrar on or before matriculation, as full credit will be given for all approved courses taken in such schools. Credentials from other high schools of recognized standing should be filed with the committee on admission at least two weeks before the opening of school. All applicants who do not hold such certificates or credentials should present themselves for examination.

Admission may be either to first-year work without condition, to work as an unclassified student, or to advanced standing.

Admission to First Year

The requirements for admission are usually stated in units. A unit is the standard amount of work required in a secondary school subject, given five times a week, thirty-six weeks, with recitation periods not less than forty minutes in length. Seven units properly selected will admit to the two years' plan, and fifteen units properly

selected, to the three years' plan and the four years' plan. The units required are given below:

Subjects	Two Year	Three Year and Four Year
English	2	3
Algebra	1	1
Plane Geometry		1
History	1	1
*Latin	1	2
Physics		1
Electives	2	6
Total	7	15

*Students who enter without Latin will be required to enroll in the course in elementary Latin which is included in the first semester's work for the Ph. G. degree.

A more detailed statement of the university's plan of admission will be found under the head of "Admission."

Unclassified Students

Applicants for admission, twenty-one or more years of age, not candidates for a degree, who wish to take certain courses in the School of Pharmacy without first bringing up the regular entrance requirements, are admitted as unclassified students and permitted to take such courses upon giving satisfactory evidence that they are prepared to carry them to advantage. If they subsequently desire to become candidates for a degree, they must make up the entrance and all other requirements for the degree they may select.

Advanced Standing

Advanced standing will be given for work properly done in a school having equal entrance and other requirements. Application must be made for advanced standing at matriculation.

Tuition

Tuition is free in all departments of the university to residents of Oklahoma. All students will be held responsible for damage to or loss of equipment and instruments and no credit will be granted or grades reported to students neglecting to pay the actual cost of such loss or damage, nor will honorable dismissal be granted such students.

The fees and deposits payable by pharmacy students are included in the general list in this catalogue. For full information see "Fees and Deposits" under "General Information."

LABORATORIES

Chemical and Pharmaceutical Laboratories

The laboratories comprise well-equipped rooms in the Science Hall as follows:

Two general lecture rooms.
A laboratory of general chemistry.
Two laboratories of quantitative and organic chemistry.
A research laboratory.
Three private laboratories and offices.
A laboratory for water and food analysis.
A dispensing room.
A balance room.
A general pharmacy laboratory.
A pharmacognosy and prescription room.
A private pharmacy room and office.
An instrument room.

PHARMACY AS A PROFESSION

Never before have opportunities in pharmacy been so great and never in its history has this profession rendered a more important service to mankind. The many advances in the science of medicine and the enactment of important laws both state and national, regulating the manufacture and sale of drugs and medicines have stimulated a co-operative advancement along pharmaceutical lines. The opportunities that are open to those who would keep pace with these advancements are innumerable. Analytical and research chemists with a knowledge of pharmacy have no difficulty in obtaining remunerative and attractive positions in manufacturing plants and in municipal, state, and national laboratories. The practicing pharmacist in every community occupies a position of importance and responsibility surrounded with opportunities limited only by his own ability as determined by his native talent and the extent to which he has been trained in the science.

PURE FOOD AND DRUG COURSES

Since the passage of the National Food and Drug Act of June 30, 1906, there has developed an increasing need for trained chemical, pharmaceutical, and microscopical analysts to fill positions for the United States government, in state public health, pure food and drug laboratories, for large manufacturing houses and dealers in drugs and chemicals.

The State Pure Food and Drug Laboratories are located at the university. The School of Pharmacy is very closely associated with

this department and students of the school have free access to the laboratories and may elect courses in food, drug, and sanitary water analysis. The laboratories are splendidly equipped with polariscopes, extraction apparatus, centrifuges, and all other instruments and equipment needed in carrying on the various phases of the work.

Graduates of the three-year and the four-year courses in pharmacy are eligible for positions as food, drug, and sanitary analysts for the government, the various states, and commercial houses. Students in the School of Pharmacy are especially prepared to pursue this class of work since pharmacy plays as large a part in the analytical work as does chemistry.

PHYSICAL EDUCATION

All students in the School of Pharmacy, except those who are admitted with one or more years of advanced standing or with a year of college work, are required to take physical education to the extent of two hours during their course. Such "hour" represents approximately three hours of exercise a week during one semester.

The systematic participation in athletic sports, such as football, baseball, tennis, basketball, boxing, fencing, wrestling, and track athletics under the direction of the physical director or coach is regarded as fulfilling these requirements.

PRIZES

The John Barbour Senior Prize: Recommendation to membership in the American Pharmaceutical Association with one year's dues to the senior student in the School of Pharmacy receiving the highest grades in all courses pursued during the senior year.

The John Barbour Junior Prize: A leather-bound indexed copy of the National Standard Dispensatory to the junior student who receives the best average grade in all branches.

Howard Storm Browne Prize: Recommendation to membership in the American Pharmaceutical Association with one year's dues to the student receiving the best grade in Materia Medica 4.

SPECIAL LECTURES

Lectures on the subject of pharmaceutical jurisprudence are delivered by members of the faculty of the School of Law. Each lecturer being a recognized authority on the subject assigned to him, the students of the School of Pharmacy enjoy an unusual privilege in their study of law in its relation to the pharmacist.

Other lectures on subjects of interest to the profession are given from time to time by out-of-town speakers.

STOCKONIAN SOCIETY

This society has been organized in order to bring into closer relation

the School of Pharmacy at the University of Oklahoma and the students and faculty of the School of Pharmacy, to upbuild the school, to promote the mutual welfare of the students and faculty, and to perpetuate friendship and good fellowship with one another.

All students enrolled in the School of Pharmacy are eligible to membership. Meetings are held on the first and third Tuesday nights of each month during the college year. An address is usually given by an outside speaker upon a subject of special interest to pharmacy students. In addition to this part of the program the students obtain valuable drill in parliamentary practice, and discuss current topics relative to pharmacy.

READING TABLE

The reading table of the School of Pharmacy is well supplied with a large number of the best drug journals published. Among them are the following named journals: Bulletin of Pharmacy; Western Druggist; Pharmaceutical Era; Pacific Drug Review; Meyer Brothers Druggist; McPike's Bi-Monthly; Western Drug Record; Northwestern Druggist; Midland Druggist and Pharmaceutical Review; The Apothecary; The Spatula; The Southern Pharmaceutical Journal; The Western Drug Record; N. A. R. D. Notes, The National Druggist.

OUTLINE OF WORK

TWO-YEAR PLAN

Outline of Courses Leading to the Degree of Graduate in Pharmacy

First Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Pharmacy 1	4	Pharmacy 2	4
Chemistry 6	6	Chemistry 4	4
Botany 3	4	Botany 4	4
*Latin 10	3	Pharmacy 6	2
Physical Education 1	1	Latin 11	2
		Physical Education 2	1
Total	18	Total	17

Second Year

Pharmacy 3	4	Pharmacy 8	3
Chemistry 5	4	Materia Medica 3	4
Chemistry 121	4	Chemistry 125	2
Materia Medica 4	4	Chemistry 122	4
		Materia Medica 5	4
Total	16	Total	17

THREE-YEAR PLAN

Outline of Courses Leading to the Degree of Pharmaceutical Chemist

The first two years under this plan must include all work necessary to receive the degree of Graduate in Pharmacy and the following courses in addition:

Third Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Pharmacy 9	4	Materia Medica 7	4
Foreign Language	4	Foreign Language	4
Bacteriology 5	2	Hygiene 1	4
Chemistry 126	5	Chemistry 105	4
Chemistry 10 (Urinalysis)	2		
Total	17	Total	16

*Students offering Latin for admission will be excused from Latin 10, and may substitute for it Pharmacy 10 or some other subject.

FOUR-YEAR PLAN

The four year plan includes all the work above outlined under the three-year plan, and one additional year, preferably identical with the first year's work in the College of Arts and Sciences to be taken before entering the work in pharmacy. This year's work is as follows:

First Semester		Second Semester	
Course	Hours	Course	Hours
English 1	4	English 2	4
German	4	German	4
Physics 1	4	Physics 2	4
Mathematics 2 or 5	4	Mathematics 9	4
Physical Education 1	1	Physical Education 2	1
Total	17	Total	17

Those who take the three years in pharmacy first, must secure enough additional hours of credit from courses approved by the Dean of the School of Pharmacy, to make a total of 124.

In the above courses of instruction, it is the aim of the faculty to follow as nearly as practicable the outlines of courses given in the Pharmaceutical Syllabus as recommended by the national committee.

DESCRIPTION OF COURSES

NOTE: First semester courses are marked a. Second semester courses are marked b. Courses with no letter attached are given both semesters.

BACTERIOLOGY

Professor Ellison

Bacteriology 5b. Pharmaceutical Bacteriology: A study of the fundamental principles of bacteriology, the relation of bacteria to disease, the study of the specific micro-organisms of disease; immunity and serum therapy; the preparation and standardization of bacterines, serums, and antitoxins; and disinfectants. This course is designed especially for students of pharmacy. Lectures, assigned readings, and demonstrations. 2 hours.

BOTANY

Professor Van Vleet,

Botany 3a. Pharmaceutical Botany: A study of the general morphology and histology of plants. For students of pharmacy only. Fee, $1.00. Lectures, text, and laboratory. 4 hours.

Botany 4b. Pharmaceutical Botany: Instruction in this course is divided into two periods. Period 1 extends from the beginning of the semester to the first of April. Period 2 includes the remainder of the semester. Fee, $1.00. 4 hours.

CHEMISTRY

Professor DeBarr, Professor Williams, Assistant Professor Porter, Miss Briegel

Chemistry 6a. General Chemistry for Pharmacy Students: A general introductory course consisting of two lectures, one recitation or quiz, and three laboratory periods of three hours each per week. The lectures will be given in connection with Chemistry 1. The work of this course embraces the consideration of the general principles of chemistry, the study of the nonmetals and certain inorganic preparations. Deposit required. Professor DeBarr, Miss Briegel. 6 hours.

Chemistry 4. Qualitative Analysis: Analysis of unknowns.

aboratory and lectures. Prerequisite, Chemistry 6. Deposit required. Professor Williams. 4 hours

Chemistry 5. Quantitative Analysis: Volumetric and gravimetric estimations. Lectures and laboratory. Prequisite, Chemistry 4. Deposit required. Miss Briegel. 4 hours.

Chemistry 10a. Urinalysis: The chemical and microscopical analysis of normal and pathological urine. Quantitative and qualitative estimations are made. One lecture and three hours laboratory per week. Prerequisite, enrollment in Chemistry 5. Deposit required. Professor DeBarr. 2 hours.

Chemistry 105b. Water Analysis: A study of sanitary, sewaag, and mineral waters. Prerequisite, Chemistry 5. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisite, Chemistry 5. Assistant Professor Porter. 4 hours.

Chemistry 122b. Organic Analysis: Analysis of alkaloids and organic acids. Examination of fat and oils. Prerequisite, Chemistry 121. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 125b. Toxicology: A study of poisons. Lecture and laboratory. This course embraces a study of the symptoms, postmortem appearances, antidotes attendant upon poisoning, and the recovery of the poisons from the various organs of the body. Prerequisite, Chemistry 121. Deposit required. Professor DeBarr. 2 hours.

Chemistry 126a. Chemistry and Composition of Food Products: A study of food-stuffs and their adulteration. Lectures, recitations, and laboratory. Prerequisite, Chemistry 121. A student may take this course more than once and receive credit each time, provided the work is not duplicated. Deposit required. Professor DeBarr. 5 hours.

ENGLISH

Professor Brewer

English 1. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence. Daily and fortnightly themes. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it. The course is given in thirteen sections. Professor Brewer, Professor Hadsell, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, Mr. W. S. Campbell, Mr. L. Q. Campbell, Mr. Frierson. 4 hours.

English 2. First Principles of English Composition: Long and short themes at stated intervals. A study of selected examples

of nineteenth century prose. Lectures on the use of words. English 2 is a continuation of and presupposes English 1. The course is given in thirteen sections. Professor Brewer, Professor Hadsell, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, Mr. W. S. Campbell, Mr. L. Q. Campbell, Mr. Frierson. 4 hours.

GEOLOGY

Professor Taylor

Geology 102a. Crystallography and Mineralogy: A study of the laws of crystallization, and the classification of crystals. The physical properties, chemical composition, and mode of occurrence of minerals. Prerequisite, Chemistry 1. Deposit required. 3 hours.

GERMAN

Professor House

German 1. Beginning German: Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Given in three sections in the first semester and in one section in the second semester. Professor House, Associate Professor Voss, and Assistant Professor Steitz. 4 hours.

German 2. Beginning German: This is a continuation of elementary German as given in German 1. Prerequisite, German 1, or equivalent. Given in three sections in the second semester, and in one section in the first semester. Professor House, Associate Professor Voss, and Assistant Professor Steitz. 4 hours.

German 9a. Scientific German: The aim of this course is to afford students of the sciences an acquaintance with technical scientific nomenclature and style. Reading of German scientific texts and articles in current technical periodicals will be required of students. Prerequisites, German 1 and 2. Wait's German Scientific Reader. Assistant Professor Steitz. 2 hours.

German 10b. Scientific German: A continuation of German 9. Reading of German scientific texts (Goeschen Sammlung) and articles in current technical periodicals. Assistant Professor Steitz. 2 hours.

HYGIENE

Professor Ellison

Hygiene 2b. Principles of Hygiene and Sanitation: A course of lectures and demonstrations with assigned readings, taking up the subjects of ventilation, heating, food, water supplies, sewage, disin-

fection, contagious diseases, and principles of school hygiene, with methods of control and suppression of epidemics. 4 hours.

LATIN

Professor Sturgis

Latin 10a. Elementary Latin: The chief aim of this course is to acquaint the student with the Latin forms and with those fundamental principles of syntax which will enable him to translate Latin in the courses that he may take later. 3 hours.

Latin 11b. Pharmaceutical Latin: The aim of this course is to translate into clear and coherent English such Latin as will give the student a wide vocabulary in pharmaceutical terms. 2 hours.

MATERIA MEDICA

Associate Professor Browne

Materia Medica 3b. This course deals in a practical way with the physiological functions of the various organs of the body together with the physiological action of typical drugs on the various organs. Lectures and assigned readings. 4 hours.

Materia Medica 4a. Pharmacognosy: A study of the official and more important non-official vegetable and animal drugs with special reference to growth, identification, collection, preparation for the market, medicinal constituents, official preparations, and dose. Lectures and recitations; Culbreth's Materia Medica and Pharmacology. Fee, $1.00. 4 hours.

Materia Medica 5b. Pharmacology and Therapeutics: This course deals with the pharmaco and therapy dynamics of the more important drugs, both official and non-official. Lectures and laboratory. Deposit required. Prerequisite, Materia Medica 4. 4 hours.

Materia Medica 7b. Inorganic Materia Medica: A study of the official and more important unofficial inorganic drugs. Their physical and chemical properties, source, methods of identification, use, and dose. Lectures, recitations, and demonstrations. 4 hours.

MATHEMATICS

Professor Reaves

Mathematics 2a. Algebra: A careful review of the fundamental principles followed by a study of exponents and radicals, theory of quadratics, graphs, systems of equations, complex numbers, ratio and proportion, progressions, logarithms, binomial theorem. Prerequisite, one year of algebra and one year of plane geometry. Assistant Professor Gossard. 4 hours.

Mathematics 5. College Algebra: Embracing the subjects of imaginaries, variables and limits, permutations and combinations,

binomial theorem, series, undetermined coefficients, logarithms, determinants, and theory of equations. This course presupposes a minimum of one and one-half years in algebra. Eight sections first semester and one section second semester. Professor Reaves, Associate Professor Duval, Assistant Professor Gossard, Mr. Meacham. 4 hours.

Mathematics 9. Trigonometry: Derivation and use of formulas, solution of triangles, trigonometric equations and identities, graphs of functions, computations of logarithms, DeMoivre's theorem. Prerequisite, Mathematics 2 or 5. One section first semester and six sections second semester. Professor Reaves, Associate Professor Duval, Assistant Professor Gossard, Mr. Meacham. 4 hours.

PHARMACY

Professor Stocking, Associate Professor Browne

Pharmacy Ia. Theoretical Pharmacy: A study of the principles of pharmacy together with sufficient demonstrations to illustrate their application. Pharmaceutical arithmetic including thorough training in the use of the metric and other tables of weights and measures constitutes a part of this course. Lectures and recitations. Professor Stocking. 4 hours

Pharmacy 2b. Official Pharmacy and Pharmaceutical Technique: A study of the processes involved in the manufacture of the Galenical preparations of the United States Pharmacopoeia and the National Formulary. Consideration is also given to the study of the drugs which are used in the manufacture of the various types of preparations. In this course the student makes about one hundred preparations including several of each pharmaceutical type as well as a number of non-official preparations. Recitations and laboratory. Deposit required. Professor Stocking. 4 hours.

Pharmacy 3a. Official Pharmacy and Pharmaceutical Technique: A continuation of Pharmacy 2. The more difficult preparations of the United States Pharmacopoeia and those in which chemical changes play an important part are studied in class and are manufactured by the student in the laboratory. The finished preparations and the ingredients of each are studied with reference to standard requirements including solubilities, tests for purity and identity, assay methods, and dosage. Each student manufactures about sixty preparations. Recitations and laboratory. Deposit required. Professor Stocking. 4 hours.

Pharmacy 6. Commercial Pharmacy: A course of practical lectures on drug store management including instruction concerning

store location, equipment, and arrangement. Drug store merchandizing will also receive consideration. Professor Stocking. 2 hours.

Pharmacy 8b. Prescriptions: A practical course in the compounding and dispensing of prescriptions, with special reference to chemical, physical, and therapeutical incompatibilities. The instruction will embrace the theoretical and practical application of the latest and best methods of compounding including the dispensing of such prescriptions as hypodermic and compressed tablets, soluble elastic capsules, suppositories, emulsions, etc. Lectures, recitations, and laboratory. Prerequisite, Pharmacy 1 and 2 and Chemistry 6 and 4. Deposit required. Professor Stocking. 3 hours.

Pharmacy 9a. U. S. P. Methods: A study of the United States Pharmacopoeial methods for drug examination and drug assaying. Prerequisite, Pharmacy 1, 2, and 3 and Chemistry 6, 4, and 5. Lectures and laboratory work. The student may take this work more than once and receive credit eachtime provided the work is not duplicated. Deposit required. Professor Stocking. 4 hours.

Pharmacy 10 a. History of Pharmacy. Lectures and assigned readings. A study of the development of pharmacy from its earliest stages to the present time. Professor Stocking. 2 hours.

PHYSICS

Professor Haseman, Miss Maloy

Physics 1a. General Physics: Mechanics, sound, heat. Lectures, recitations, laboratory, and assigned readings. A beginning course in college physics. Professor Haseman and Miss Maloy. 4 hours.

Physics 2b. General Physics: Electricity, magnetism, light. Lectures, recitations, laboratory, and assigned readings. A beginning course in college physics. Professor Haseman and Miss Maloy. 4 hours.

Physics 61a. Household Physics: Lectures, recitations, laboratory, and assigned readings. A practical course designed to give a general knowledge of those phases of physics which enter into the physical problems and appliances of the home. Special attention is given to such household systems and appliances as: water supply, plumbing, heating, ventilating, refrigerating, lighting, bread mixer, ice cream freezer, meat cutter, water meter, vacuum cleaner, water pumps, fire extinguisher, gas meter, fireless cooker, thermos bottle, electric iron, electric heater, door bell, motor, telephone, electric meters, lamps, spectacles, telescopes, projection lantern, camera, wind instruments, stringed instruments, phonograph. The laboratory work consists of practical measurements and tests relating to household work. Miss Maloy. 3 hours.

PHYSICAL EDUCATION

Professor Soutar

Physical Education Ia: Consists of a definite "day's order" of exercises, supplemented by light apparatus work and indoor and outdoor games. Required of freshmen. Professor Soutar. 1 hour.

Physical Education 2b. A continuation of Physical Education 1. Required of freshmen. Professor Soutar. 1 hour.

ROMANCE LANGUAGES

Professor Dora, Associate Professor Gimeno

French

French Ia. Beginning French: Essentials of grammar, practice in colloquial French, prose composition, reading of easy texts. Special attention will be given to the French verb and to word order. Fraser and Squair's French Grammar, Guerber's Contes et Legendes, first and second parts, Talbot's Le Francais et Sa Patrie, and Halevy's L'Abbe Constantin. Given in two sections. Professor Dora. 4 hours.

French 2b. Intermediate French: Systematic study of grammar, French conversation, sight reading, parallel work. Fraser and Squair's Grammar, Cameron's Contes de Daudet, Merimee's Carmen, Scribe et Legouve's Bataille de Dames. Given in two sections. Professor Dora. 4 hours.

French 9a. Scientific French: This course is intended primarily for students of the sciences. The object is to lead the student to understand both the spoken and written language, and to enable him to read easily at sight scientific magazines and technically scientific works as well as to write with a fair degree of accuracy upon scientific themes. Bowen's First French Scientific Reader. Muller's Grandes Decouvertes Modernes, collateral readings. Professor Dora. 2 hours.

Spanish

Spanish I. Elementary Spanish: The aim of this course is to drill the student in correct pronounciation and practical use of the language by means of oral and written exercises. Elementary grammar. Associate Professor Gimeno. 4 hours.

Spanish 2. Intermediate Spanish: Spanish composition and reading of simple modern prose, frequent exercises in the use of the more common Spanish idioms, writing from dictation; stress is laid on on the acquisition of fluency in reading, writing, and speaking the language. Grammar continued. Prerequisite, Spanish 1. Associate Professor Gimeno. 4 hours.

THE COLLEGE OF ENGINEERING

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

JAMES HUSTON FELGAR, A. B., M. E.
Dean of the College of Engineering, Professor of Mechanical Engineering.

EDWIN DEBARR, Ph. D.
Vice-President of the University, Director of the School of Chemical Engineering, Professor of Chemistry.

HAROLD VEATCH BOZELL, B. S.
Director of the School of Electrical Engineering, Professor of Electrical Engineering.

CHARLES HENRY TAYLOR, M. S.
Director of the School of Mining Geology, Professor of Geology.

JAMES IRWIN TUCKER, B. S., LL. B.
Director of the School of Civil Engineering, Professor of Civil Engineering.

HERBERT BANCROFT DWIGHT, B. S., E. E.
Professor of Mechanics.

SAMUEL WATSON REAVES, Ph. D.
Professor of Mathematics.

SARDIS ROY HADSELL, A. M.
Professor of the English Language.

GUY YANDALL WILLIAMS, Ph. D.
Professor of Physical Chemistry.

JEROME DOWD, M. A.
Professor of Sociology and Economics.

*THEODORE HAMPTON BREWER, M. A.
Professor of English Literature.

WILLIAM PETER HASEMAN, Ph. D.
Professor of Physics.

*On leave of absence, 1915-16.

†Roy Temple House, A. M.
Professor of German.

Gayfree Ellison, B. S., M. D.
Professor of Bacteriology.

Edmund Pendleton Randolph Duval, A. M.
Associate Professor of Mathematics.

Richard Gray Soutar, B. A.
Professor of Physical Education.

Maurice Goldsmith Mehl, Ph. D.
Associate Professor of Geology.

Lester William Wallace Morrow, M. E.
Assistant Professor of Electrical Engineering.

Earle Sellers Porter, M. A.
Assistant Professor of Chemistry.

Walter Jacob Wohlenberg, B. S.
Assistant Professor of Mechanical Engineering.

Harry Clinton Gossard, Ph. D.
Assistant Professor of Mathematics.

Isaiah March Rapp, Ph. D.
Assistant Professor of Physics.

*Kenneth Potter Monroe, B. S.
Instructor in Chemistry.

Everett Sterling Davis.
Instructor in Shop Practice.

Edgar D. Meacham, B. A.
Instructor in Mathematics.

Herschel C. Smith, A. B., B. C. E.
Instructor in Civil Engineering.

William Robinson Molinard, E. E.
Lecturer in Electric Power Plant Engineering.

George Washington Knox.
Lecturer in Electric Railway Engineering.

James Franklin Noble, A. B., LL. B.
Lecturer in Telephone and Telegraph Engineering.

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†On leave of absence, second semester, 1915-16.
*On leave of absence 1915-16.

THE COLLEGE OF ENGINEERING

The College of Engineering of the University of Oklahoma is a school for the higher education of young men in engineering. Its courses of instruction include chemical, civil, electrical, mechanical, and mining engineering and are based upon drawing, mathematics, physics, chemistry, and shop practice.

Some eighty years ago Tredgold defined engineering as "directing the sources of power in nature to the use and convenience of man." The man who would follow the profession so defined must be a man of science as well as a man of business. It is for this reason that a systematic mental training in technology, before entering engineering practice, is so desirable. The profession of the engineer is relatively a new one, yet the men of the future who will occupy the leading positions as engineers and managers will probably be those who have had a college training and have taken the best advantage of the opportunity.

The preparatory training that one receives in a technical school gives one knowledge of the fundamental principles of the sciences that underlie all engineering practice, and, by a judicious introduction of laboratory practice and laboratory methods into courses formerly consisting entirely of theoretical and text-book work, the student learns the "how" as well as the "why" in the application of the science. The man who knows "how" to do certain things but does not know "why" usually remains in a subordinate position.

In the modern technical school the student is first made acquainted with the theory of principles and then in the shops and laboratories he verifies this theory. The theoretical and text-book work is supplemented by experiments and investigations in the laboratories. The student thus cultivates accuracy and clearness of thought, the essential qualities of a good engineer.

The performance of laboratory experiments with all the apparatus assembled ready to hand and all the directions explicitly given is apt to become purely mechanical and of very questionable educational value. Such exercises, though usually called practical, have really little of practice in them. In actual practice the engineer is confronted with difficulties which he can overcome by a

knowledge of underlying principles and his ability to create and assemble his own apparatus. The laboratories and shops of the College of Engineering have been especially equipped for the purpose of illustrating the fundamental principles of engineering.

Schools

The College of Engineering includes the Schools of Chemical, Civil, Electrical, and Mechanical Engineering, and the School of Mining Geology. An outline of the courses required of the students in each of the schools will be found in the following pages. The total number of hours required for graduation is fixed at 140.

Thesis

Each candidate for a degree in engineering will be required to prepare a thesis on some special engineering subject, or elect such engineering work for the required number of units as may be determined upon in consultation with the director of the school. The thesis may be a test of a power plant, a design of a machine or a piece of apparatus, or the investigation of some process of manufacture. Whatever the subject selected, the thesis must show original work or investigation and be as complete an exposition on the subject as possible. The subject for the thesis must be selected at the beginning of the senior year, and the thesis presented for approval not later than the first Monday in May before graduation.

Original typewritten copy or drawings, which shall become the property of the university, must be presented, and any machine or piece of apparatus constructed for this thesis shall also belong to the university.

Degree

The degree of Bachelor of Science, qualified by the name of the school in which the work is done, is conferred upon graduates of the College of Engineering. For information concerning graduate degrees in engineering see "The Graduate School."

Positions

No institution of learning can guarantee a position to every one of its graduates. The giving of employment is wholly beyond control of such an institution. The university authorities will use their best efforts to aid worthy graduates in securing suitable positions.

So far the university has been unable to meet the demand for technically trained men, and many are tempted by offer of lucrative positions to leave school before graduation. The College of Engineering of the University of Oklahoma, whose requirements for admission cover the work of a high school course, offers advanced and thorough

courses to those seeking a technical education. Those who have had the most thorough and advanced training can, of course, hope to secure the most desirable positions. Those who have made the necessary preparation are almost certain to secure positions of responsibility and trust.

ADMISSION

Applicants for admission to the College of Engineering should be at least sixteen years of age. Admission may be either by certificate or examination. Graduates of affiliated schools may present their certificates to the registrar on or before matriculation, as full credit will be given for all approved courses taken in such schools. Credentials from other high schools of recognized standing should be filed with the committee on admission at least two weeks before the opening of school. All applicants who do not hold such certificates or credentials should present themselves for examination.

A more detailed statement of the university's plan of admission will be found under the head of "Admission."

Admission may be either to first-year work without condition, to work as an unclassified student, or to advanced standing.

Admission to First Year

The requirements for admission are usually stated in units. A unit is the standard amount of work required in a secondary school subject, given five times a week, thirty-six weeks, with recitation periods not less than forty minutes in length. Fifteen units properly selected will admit to the first year's work without condition. The units required are given below:

Subject	Units
English	3
Algebra	1 1-2
Geometry	1 1-2
History	1
†One Foreign Language	2
*Physics	1
Electives	5
Total	15

†German is preferred in Chemical Engineering.

*Chemistry, one unit; botany, one unit; zoology, one unit; or botany and zoology, one-half unit each, may be substituted.

Exemptions from Prescribed Work

Students presenting entrance credit for trigonometry, mechanical drawing, or manual training, may, on examination, be excused from taking the corresponding college courses, but must elect equivalent hours of college work.

Admission to Second Year

At the beginning of the sophomore year each student must file with the registrar a statement showing which branch of engineering he chooses to follow. Blanks for this purpose can be secured at the registry office and must be approved by the Dean of the College of Engineering and the director concerned.

Unclassified Students

Applicants for admission, not candidates for a degree, may be admitted to work suited to their needs with the approval of the dean. Such applicants must be twenty-one years of age, or must satisfy the requirements for admission to candidacy for a degree.

High school graduates presenting the equivalent of at least twelve admission units may be admitted to part of the first-year work, while making up deficiencies.

Advanced Standing

Advanced standing will be given for any work properly done in a school having equal entrance and other requirements. Application must be made for advanced standing at matriculation.

Equipment

For a description of the laboratories, buildings, etc., and for other information concerning the College of Engineering, consult the proper section in this catalogue.

Fees and Deposits

The fees and deposits payable by engineering students are included in the general list in this catalogue. For full information see "Fees and Deposits" under "General Information."

OUTLINE OF THE WORK OF THE SEVERAL SCHOOLS

First Year Engineering—All Schools

First Semester		Second Semester	
Course	Hours	Course	Hours
*Chem. 3 or Chem. 1	4	Chem. 7	4
English 1	4	English 2	4
Math. 5	4	Mech. Draw. 2	2
Math. 6	3	Math. 14	4
Mech. Draw. 1	2	Shop 2	2
Shop 1	1	Physical Education 2	
Physical Education 1		Freshman Conference	
Freshman Conference			
Total	18	Total	16

Chemical Engineering

Second Year

First Semester		Second Semester	
Math. 117	4	Math. 118	4
Physics 51	5	Physics 52	5
Chem. 5	4	Chem. 102	4
†German 1 or 3	4	German 2 or 4	4
Chem. 103	2	Economics 9	2
Total	19	Total	19

Third Year

First Semester		Second Semester	
Chem. 121	4	Chem. 122	4
Mech. 151	4	Chem. 123	2
Mech. 152	2	Mech. 153	4
M. E. 1	4	Mech. 154	2
M. E. 161	1	Geol. 1	4
German 9	2	German 10	2
Total	17	Total	18

Fourth Year

First Semester		Second Semester	
Chem. 104	4	Chem. 106	4
Chem. 51	4	Chem. 152	4
Bacteriology 3	4	E. E. 53	3
E. E. 51	3	E. E. 54	1
E. E. 52	1	Engineering 51	3
English 119	2	Chem. 52	2
Total	18	Total	17

*Students who have not had high school chemistry take Chemistry 1.

†Students who have not had two years of high school German take German 1 and 2.

Civil Engineering

Second Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Math. 117	4	Math. 118	4
Physics 51	5	Physics 52	5
Mech. Drawing 3	3	C. E. 2	4
C. E. 1	4	Geol. 3	4
C. E. 161	2	Economics 9	2
Total	18	Total	19

Third Year

First Semester		Second Semester	
Mech. 151	4	Mech. 153	4
C. E. 3	4	Mech. 154	2
C. E. 151	4	C. E. 152	4
Mech. 152	2	C. E. 53	3
M. E. 1	4	C. E. 154	2
		Mech. 155	3
Total	18	Total	18

Fourth Year

First Semester		Second Semester	
C. E. 155	4	C. E. 157	1
C. E. 156	1	C. E. 158	4
C. E. 59	3	E. E. 53	3
E. E. 51	3	E. E. 54	1
E. E. 52	1	C. E. 160	4
Bacteriology 3	4	Engineering 51	3
English 119	2		
Total	18	Total	16

Electrical Engineering

Second Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Math. 117	4	Math. 118	4
Physics 51	5	Physics 52	5
Mech. Draw. 3	3	M. E. 4	3
Mech. Draw. 4	2	Mech. Draw. 5	2
M. E. 1	4	Shop 4	1
Shop 3	1	Economics 9	2
		E. E. 1	2
Total	19	Total	19

Third Year

First Semester		Second Semester	
Mech. 151	4	Mech. 153	4
Mech. 152	2	Mech. 154	2
Physics 105	1	Mech. 155	3
Physics 104	4	E. E. 163	1
E. E. 161	4	E. E. 164	4
M. E. 154	2	M. E. 155	2
M. E. 161	1	M. E. 162	1
		E. E. 165	1
Total	19	Total	18

Fourth Year

First Semester		Second Semester	
C. E. 1	4	Engineering 51	3
English 119	2	E. E. 175	2
E. E. 171	5	E. E. 176	2
E. E. 172	3	E. E. 177	2
E. E. 173	2	E. E. 178	2
E. E. 74	2	E. E. 179	2
		E. E. 80 (Thesis)	
		E. E. 81	
		E. E. 182	1
Total	18	Total	14

Mechanical Engineering

Second Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Math. 117	4	Math. 118	4
Mech. Draw. 3	3	M. E. 2	4
Physics 51	5	Physics 52	5
M. E. 1	4	M. E. 4	3
Mech. Draw. 4	2	Mech. Draw. 5	2
Shop 3	1	Shop 4	1
Total	19	Total	19

Third Year

First Semester		Second Semester	
Mech. 151	4	Mech. 153	4
Mech. 152	2	Mech. 155	3
Mech. 156	2	M. E. 155	2
M. E. 158	4	M. E. 52	2
M. E. 154	2	Mech. 154	2
Mech. Draw. 51	2	M. E. 162	1
M. E. 3	1	Economics 9	2
M. E. 161	1		
Total	18	Total	16

Fourth Year

First Semester		Second Semester	
M. E. 163	4	M. E. 164	3
M. E. 153	2	M. E. 165	2
English 119	2	M. E. 167	3
C. E. 1	4	E. E. 53	3
M. E. 56	2	E. E. 54	1
E. E. 51	3	Engineering 51	3
E. E. 52	1	M. E. 57	2
		M. E. 67 (Thesis)	
Total	18	Total	17

Mining Geology

Second Year

First Semester		Second Semester	
Course	Hours	Course	Hours
Physics 51	5	Physics 52	5
Math. 117	4	Chem. 2	4
C. E. 1	4	Chem. 5	4
Geol. 1	4	Geol. 2	4
		Economics 9	2
Total	17	Total	19

Third Year

First Semester		Second Semester	
M. E. 1	4	C. E. 2	4
Geol. 102	3	Mech. 153	4
Chem. 101	4	Geol. 103	3
Mining Geol. 51	3	Mining Geol. 52	4
Mech. 151	4	Mech. 154	2
Mech. 152	2		
Total	20	Total	17

Fourth Year

First Semester		Second Semester	
E. E. 51	3	E. E. 53	3
E. E. 52	1	E. E. 54	1
Mining Geol. 53	2	Geol. 104	4
Mining Geol. 54	3	Engineering 51	3
Mining Geol. 55	4	Mech. 155	3
Mining Geol. 56	2	Mining Geol. 57	3
English 119	2	Thesis	
Total	17	Total	17

DESCRIPTION OF COURSES

NOTE:—First-semester courses are marked a. Second-semester courses are marked b. Courses with no letter attached are given both semesters.

BACTERIOLOGY

Professor Ellison

Bacteriology 3a. Sanitary Bacteriology: A study of the fundamental bacterial activity; the analysis of water, soil, and milk, the testing of disinfectants; a study of septic tanks and the problems of public sanitation. This course is designed especially for students in engineering. Laboratory, conferences, and lectures. Deposit required. 4 hours.

CHEMICAL ENGINEERING

Professor DeBarr, Professor Williams, Assistant Professor Porter, Miss Briegel

Chemistry 1. General Chemistry: Two lectures and two laboratory periods of three hours each per week. Deposit required. Professor DeBarr and Miss Briegel. 4 hours.

Chemistry 2. General Chemistry: A continuation of Chemistry 1. Two lectures and two laboratory periods of three hours each per week. Prerequisite, Chemistry 1. Deposit required. Professor DeBarr and Miss Briegel. 4 hours.

Chemistry 3a. General Chemistry: This course is planned for those students who have had one year of high school chemistry. Two lectures and two laboratory periods of three hours each per week. Prerequisite, one entrance credit in chemistry. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 5. Quantitative Analysis: Volumetric and gravimetric estimations. Lectures and laboratory. Prerequisite, Chemistry 4. Deposit required. Miss Briegel. 4 hours.

Chemistry 7b. Analytical Chemistry: Analysis of unknowns. Laboratory and lectures. Open only to students in engineering. Pre-

requisite, Chemistry 1 or 3. Deposit required. Professor Williams. 4 hours.

Chemistry 51a. Electro-Chemistry: This course takes up the elements of physical chemistry. Theory of electrolytic dissociation, migration of ions, conductivity of solutions, electromotive force, electrolysis, and some of the applications of electro-chemistry. Prerequisites, Chemistry 7, Physics 52, and Mathematics 117. Lectures and recitations and one laboratory period of three hours. Deposit required. Professor Williams. 4 hours.

Chemistry 52a. Chemical Technology: Lectures and recitations upon the processes employed in industrial chemistry. Prerequisite, Chemistry 4, 5, 121. Professor DeBarr. 2 hours.

For Undergraduates and Graduates

Chemistry 101a. Advanced Qualitative Chemistry: Continuation of Chemistry 4. Deposit required. Professor Williams. 4 hours.

Chemistry 102b. Advanced Quantitative Analysis: Continuation of Chemistry 5. Deposit required. Miss Briegel. 4 hours.

Chemistry 103a. Inorganic Preparations: Laboratory with lectures. Prerequisite, Chemistry 4. Deposit required. Assistant Professor Porter. 2 hours.

Chemistry 104a. Assaying: This course deals with the estimation of iron, lead, copper, silver, zinc, etc., by the wet way, and of gold and silver by the use of fluxes and other reagents. Prerequisite, Chemistry 5. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 106b. Iron, Steel, and Coal Analysis: A study of iron, steel, and coal used in commerce and for domestic purposes. Prerequisite, Chemistry 5. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 121a. Organic Chemistry: This course embraces a study of the aliphatic and aromatic series of hydrocarbons and their derivatives. Prerequisite, Chemistry 5. Assistant Professor Porter. 4 hours.

Chemistry 122b. Organic Analysis: Analysis of alkaloids and organic acids. Examination of fat and oils. Prerequisite, Chemistry 121. Deposit required. Assistant Professor Porter. 4 hours.

Chemistry 123b. Organic Preparations: Laboratory with lectures. Prerequisites, Chemistry 4, 121, and German 2. Deposit required. Assistant Professor Porter. 2 hours

Chemistry 152. Elementary Physico-Chemical Measurements: A laboratory course that must be taken with or after Chemistry 151. Molecular weight determinations by vapor density, freez-

ing and boiling point methods, study of solutions, solubility, conductivity, transport numbers, etc. Deposit required. Professor Williams. 4 hours.

CIVIL ENGINEERING

Professor Tucker, Mr. Smith

Primarily for Undergraduates

Civil Engineering 1a. Surveying: Theory and use of the ordinary instruments of surveying such as the tape, compass, transit, and level. The common operations of surveying and of calculating and plotting surveys are taught. Prerequisite, Mathematics 6. Professor Tucker and Mr. Smith. 4 hours.

Civil Engineering 2b. Advanced Surveying: Some attention is devoted to triangulation, topography and hydrography, astronomy, and geodesy. The theory and use of the plane table, sextant, barometer, slide rule, and instruments of lesser importance are studied. The class will make a topographic survey of a piece of land, take topographic notes over it and produce a finished map of the section. Prerequisite, Civil Engineering 1. Mr. Smith. 4 hours.

Civil Engineering 3a. Roads and Pavements: The principles involved in the location and construction of highways, streets, and roads are studied, and numerous numerical problems solved illustrating them. Professor Tucker. 4 hours.

Civil Engineering 53b. Sewerage: Design and construction of sewerage systems both separate and combined, determination of size and capacity and modern methods of sewage disposal. Prerequisite, Civil Engineering 2. Professor Tucker. 3 hours.

Civil Engineering 59a. Water Supplies: A study of the quantity, quality, and source of potable water supplies with the necessary structures for collecting the same. A brief study of the operation of distribution systems, with considerable attention to modern methods of purifying and improving water for domestic and commercial uses. Mr. Smith. 3 hours.

For Undergraduates and Graduates

Civil Engineering 151a. Railroad Surveying: A study of the best practice in railroad field work, including the mathematics of simple and compound curves and of earthwork computation. Some field practice in curves; the projection of a line on a map and estimates together with approximate design of structures. Prerequisite, Civil Engineering 2. Professor Tucker and Mr. Smith. 4 hours.

Civil Engineering 152b. Railroad Surveying: A continuation of Civil Engineering 151. Professor Tucker and Mr. Smith. 4 hours.

Civil Engineering 154b. Foundations: Foundations on land and

in water, cribwork, cofferdams, caissons, piles, and pile driving; stone, brick, concrete, pneumatic processes, etc. Professor Tucker. 2 hours.

Civil Engineering 155a. Structural Engineering: The calculation of stresses in steel roofs, bridges, and buildings. Studies are made of systems of loading and the solution of trusses by graphics. The principles taught in Mechanics 153 are brought into use in the design of members. Prerequisite, Mechanics 153. Mr. Smith. 4 hours.

Civil Engineering 156a. Railroad Engineering: This course treats of economics of railway operation and maintenance, fundamentals of terminal designs, and trunk line electrification, and deals briefly with railroad accounting, valuations, and reports. Prerequisite, Civil Engineering 151 and 152. Professor Tucker. 1 hour.

Civil Engineering 157b. Railroad Engineering; A continuation of Civil Engineering 156. Professor Tucker. 1 hour.

Civil Engineering 158b. Masonry Structures: Including building stone and quarrying and the design and construction of arches, dams, retaining walls, piers, and buildings of stone, brick, and concrete masonry, with special attention to reinforced concrete. Prerequisite, Mechanics 153. Mr. Smith. 4 hours.

Civil Engineering 160b. Structural Design: The actual detailing of simple metal structures. Prerequisite, Civil Engineering 155. Mr. Smith. 4 hours.

Civil Engineering 161. Fire Protection: A study of the principal classes of fire hazards in building construction and of modern methods for obviating or controlling them. The leading types of slow burning or fire-resisting construction are considered, together with plans and lay-outs providing maximum safety for persons and property. Professor Tucker. 2 hours.

Primarily for Graduates

Civil Engineering 200. Advanced Structural Design: Analysis and design of less simple structures of steel. 3 hours.

Civil Engineering 201. Advanced Structural Design: Continuation of Civil Engineering 200. 3 hours.

Civil Engineering 202. Re-inforced Concrete: Design and experimental work. 4 hours.

Civil Engineering 203. Railroad: A study of railroad statistics, management, and operation. 4 hours.

Civil Engineering 204. Water Purification and Sewage Disposal: The chemical and bacterial analysis of water and sewage, and the design of plants for commercially accomplishing the same. 3 hours.

Civil Engineering 205. Water Purification and Sewage Disposal: Continuation of Civil Engineering 204. 3 hours.

Civil Engineering 206. Water Power or Irrigation Engi-

neering: Stream flow data. Hydraulic turbines. Design and construction of dams and controlling works. 3 hours.

Civil Engineering 207. Water Power or Irrigation Engineering: Continuation of Civil Engineering 206. 3 hours.

Civil Engineering 208. Highway Engineering: Research and experimentation in the use of asphaltic and bituminous materials for street purposes and allied problems. 4 hours.

ECONOMICS

Professor Dowd, Assistant Professor Adams, Mr. Robb

Economics 9b. Business Administration: A study of legal forms, credit instruments, funding operations, accounting, and executive duties. Assistant Professor Adams. 2 hours.

ELECTRICAL ENGINEERING

Professor Bozell, Assistant Professor Morrow, Mr. Molinard, Mr. Noble, Mr. Knox

Primarily for Undergraduates

Electrical Engineering I. Electrical Machinery and Wiring: Parts, nomenclature, construction, and assembly of electrical generators, motors, coils, magnets, and other electrical apparatus; electrical wiring and wiring appliances; the National Electric Code. Recitations and shop and laboratory practice. No prerequisite. Professor Bozell and Assistant Professor Morrow. 2 hours.

Electrical Engineering 51a. Direct Current Machinery: For civil, geological, and mechanical engineering students. Electricity; magnetism; theory of direct current machinery. Lectures and recitations. Prerequisite, Physics 2 or 52. Assistant Professor Morrow. 3 hours.

Electrical Engineering 52a. Electrical Engineering Laboratory: For civil, geological, and mechanical engineering students. Experimental work with direct current machinery and the instruments used therewith. Prerequisite, enrollment in Electrical Engineering 51. Assistant Professor Morrow. 1 hour.

Electrical Engineering 53b. Alternating Current Machinery: For civil, geological, and mechanical engineering students. Theory of alternating currents, alternating current machinery. Lectures and recitations. Prerequisite, Electrical Engineering 51. Assistant Professor Morrow. 3 hours.

Electrical Engineering 54b. Electrical Engineering Laboratory: For civil, geological, and mechanical engineering students. Ex-

perimental work with alternating current circuits, alternating current machinery, and the instruments used therewith. Prerequisite, enrollment in Electrical Engineering 53. Assistant Professor Morrow. 1 hour.

Electrical Engineering 74a. Electrical Machine Design: Theory and principles underlying the design of electrical machinery in all details—electrical and mechanical. At least one design will be completed, including all drawings, by each student. Lectures, recitations, and design periods. Prerequisites, Mechanics 153, and enrollment in Electrical Engineering 171. Professor Bozell. 2 hours.

Electrical Engineering 80b. Professional Thesis: Preliminary reading during the first semester. For the second semester, the student is expected to devote a large part of his free time to the personal investigation, experimental or otherwise, of his subject, and to write an acceptable thesis upon his results and conclusions. Professor Bozell or other instructors, depending upon the nature of the subject chosen. Eight hours a week, by appointment.

Electrical Engineering 81b. Inspection Trip: A more or less extended trip—the nature and points visited varying from year to year—for the purpose of inspecting installations, operating and under construction, and manufacturing plants of special interest to electrical engineers. The students will be accompanied by Professor Bozell.

For Undergraduates and Graduates

Electrical Engineering 161a. Direct Current Machinery: Advanced work in electricity and magnetism. The theory of direct current machinery, circuits, and instruments. Lectures and recitations. Prerequisite, enrollment in Physics 104. Assistant Professor Morrow. 4 hours.

Electrical Engineering 162a. Electrical Engineering Laboratory: Experimental work with direct current machinery and measuring instruments. Prerequisite, enrollment in Electrical Engineering 161. Assistant Professor Morrow. 1 hour.

Electrical Engineering 163b. Electrical Engineering Laboratory: Continuation of Electrical Engineering 162. Commercial tests and operation. Prerequisite, Electrical Engineering 162. Assistant Professor Morrow. 1 hour.

Electrical Engineering 164b. Theory of Alternating Currents: A study, mainly mathematical, of alternating currents, alternating current circuits and phenomena. The fundamental theory of alternating current machinery. Prerequisites, Physics 104, and Mathematics 117. Professor Bozell. 4 hours.

Electrical Engineering 165b. Electrical Laboratory: Advanced electrical measurements; experimental work with measuring instru-

ments, apparatus, circuits, and conditions pertaining specially to alternating currents. Prerequisites, Physics 105, and enrollment in Electrical Engineering 164. Assistant Professor Morrow. 1 hour.

Electrical Engineering 171a. Alternating Current Machinery: The theory and study of alternating current machinery. Lectures and recitations. Prerequisite, Electrical Engineering 165. Professor Bozell. 5 hours.

Electrical Engineering 172a. Experimental Electrical Engineering: Experimental work with alternating current machinery; methods of testing and operation. Work in the operation of combinations of direct and alternating current machinery. Prerequisite, enrollment in Electrical Engineering 171. Assistant Professor Morrow. 3 hours.

Electrical Engineering 173a. Telegraph and Telephone Engineering: Principles underlying telephone apparatus; operation of apparatus and systems. Experimental work with apparatus and equipment. Theory of signaling in line and wireless telegraphy. Lectures, recitations, and laboratory. Prerequisite, Electrical Engineering 165. Professor Bozell and Mr. Noble. 2 hours.

Electrical Engineering 175b. Advanced Electrical Machinery: A continuation of courses 161 and 171. Advanced study of types of alternating and direct current machinery. Selection of machinery for specific purposes. Prerequisite, Electrical Engineering 172. Assistant Professor Morrow. 2 hours.

Electrical Engineering 176b. Electrical Transmission and Distribution of Power: The principles involved and the methods used in the transmission and distribution of electric power. Lectures, recitations, and assigned readings; laboratory as required. Prerequisite, Electrical Engineering 172. Assistant Professor Morrow. 2 hours.

Electrical Engineering 177b. Electric Railway Engineering: The engineering principles and practice in electric railway work. The preliminary calculations, speed-time curves and schedules, power house and sub-stations, rolling stock, transmission, equipment. Lectures, recitations, problems, and assigned readings. Prerequisite, Electrical Engineering 172. Professor Bozell and Mr. Knox. 2 hours.

Electrical Engineering 178b. Illuminating Engineering: A study of the different illuminants, and methods of illumination. Color effects, efficiency, photometry. Machinery peculiar to illumination. Lectures, recitations, and assigned readings. Laboratory as required. Prerequisites, Mathematics 6 and Physics 2 or 52. Professor Bozell. 2 hours.

Electrical Engineering 179b. Electrical Power Plants: The economic design and operation of electric power plants. Selection and installation of machinery. Plans and estimates. Accounting,

management. Lectures, recitations, and periods for design work. Prerequisite, Electrical Engineering 172 and Mechanical Engineering 60. Professor Bozell and Mr. Molinard. 2 hours.

Electrical Engineering 182. Current Electrical Engineering: Systematic reading with weekly reports and discussions of current periodicals and electrical engineering. Discussion of theory and practice therein contained. One recitation per week. Professor Bozell. 1 hour.

Primarily For Graduates

Electrical Engineering 201. Advanced Alternating Currents: Study of Steinmetz' writings on alternating currents with a comparison with other authors' theories and methods. 3 hours.

Electrical Engineering 202. Transient Phenomena: Study of Steinmetz' writings on transients with a comparison with other authors' theories and methods. 3 hours.

Electrical Engineering 203. Current Electrical Engineering: This includes systematic reading of current American, English, French, German, and other periodicals in electrical engineering with weekly reports and a comparison of theory and practice found therein with former practices and with each other. A general criticism of all of the important articles. Credit will be given each semester taken, but not to exceed nine hours credit will be given any one person. 3 hours.

Electrical Engineering 204. Advanced Electrical Railway Engineering: Investigation of capitalization, operation, management, and engineering. This will be supplemented with tests on equipment and selection of equipment, rolling stock, etc. 3 hours.

Electrical Engineering 205. Advanced Electric Railway Engineering: Continuation of Electrical Engineering 204. 3 hours.

Electrical Engineering 206. Advanced Steam Power Plant Engineering: This course includes methods of rate making, management, cost accounting, equipment, operation, and public relations. 3 hours.

Electrical Engineering 207. Advanced Hydro-Electric Power Plant Engineering: The course includes hydraulic development and methods of rate making, management, cost accounting, equipment, operation, and public relations. 3 hours.

Electrical Engineering 208. Advanced Electrical Transmission: Problems involved in modern high-voltage, high-power systems. Design, construction, and operation. 3 hours.

Electrical Engineering 209. Electrical Engineering Research: The subject in each case will be selected by the student and approved by the head of the department. Work will include a

detailed study with such conferences, readings, laboratory work, and lectures as the work selected may demand. Credit may be received in each new subject taken up, but not to exceed five hours will be given in any one semester.

ENGINEERING

Professor Felgar, Professor Bozell, Professor Tucker

Engineering 51b. Contracts and Engineering: A study of the principles of business law with special reference to engineering and engineering contracts; practice in analysis and improvement of existing types, and in solving typical problems in specification writing. Professor Tucker. 3 hours.

For Graduates

Engineering 201. Public Utility Control: The history and present status of public utility commissions; study of current decisions. Professor Bozell. 3 hours.

Engineering 202. Engineering Valuation of Public Utilities: The elements entering into valuation of public utilities for different purposes, such as purchase by the people, sale to private capital, rate making, etc. A study will be made of valuations which have been made by engineers of note. One original valuation will be worked out with some degree of detail. Professor Bozell. 2 hours.

Engineering 203. Organization and Management: The principles of efficiency of organization and management as applied to a company or corporation doing engineering work, manufacturing or supplying power. Text-book, lectures, and problems. Prerequisite, Economics 9. Professor Felgar. 2 hours.

ENGLISH

Professor Brewer, Professor Hadsell, Mr. Morgan

English 1. First Principles of English Composition: Lectures on the whole composition, paragraph, and sentence. Daily and fortnightly themes. This course is the basis of all later work in composition and only under exceptional circumstances will work done elsewhere be substituted for it. The course is given in thirteen sections. Professor Brewer, Professor Hadsell, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, Mr. W. S. Campbell, Mr. L. Q. Campbell, Mr. Frierson. 4 hours.

English 2. First Principles of English Composition: Long and short themes at stated intervals. A study of selected examples of nineteenth century prose. Lectures on the use of words. English

2 is a continuation of and presupposes English 1. The course is given in thirteen sections. Professor Brewer, Professor Hadsell, Assistant Professor Ramey, Mr. Morgan, Mr. Smith, Mr. W. S. Campbell, Mr. L. Q. Campbell, Mr. Frierson. 4 hours.

English 119a. Advanced Composition: This course is intended for engineers and students in science of junior and senior rank. Particular attention will be given to the gathering and preparation of material, and to the writing and criticism of scientific papers. Mr. Morgan. 2 hours.

FRESHMAN CONFERENCE

Freshman Conference. A professor from each one of the schools in the College of Engineering will present to the freshmen during the year the scope of work included in his school, the field for which the work prepares him, the kind of work he will have to do in the field when he graduates, and the opportunities of that line of engineering work as a profession. The conference is required of all freshmen engineers; it meets once a month, according to the schedule. The meetings will be supplemented by assigned readings and technical reports.

GEOLOGY

Professor Taylor, Associate Professor Mehl

Primarily for Undergraduates

Geology 1. Elementary Geology: A general introductory course. A study of the origin of the earth, its past and its probable future; the chief rocks and minerals and the manner of their formation, destructive and reconstructive processes; crustal movements and mountain structures; vulcanism and metamorphism; a chronological study of the history of the earth, and of the development and evolution of life forms. A field excursion to the Arbuckle Mountains is included as part of the required work. Professor Taylor, Associate Professor Mehl. 4 hours.

Geology 2. Physiography: A study of the development of land forms and of the agents which produce them. Special consideration is given to the life history and work of streams, to glaciers, to the ocean, volcanoes, etc. The course includes a brief consideration of meteorology. A field trip to the Arbuckle Mountains is included as a part of the required work. Professor Taylor, Mr. Brown, Mr. Williams. 4 hours.

Geology 3b. Elementary Mineralogy and Economic Geology: A megascopic determination of the more important rock-making minerals and ores. The occurrence, value, and methods of recovery of the

valuable minerals. A brief discussion of the origin, mineral and chemical composition, and classification of rocks. This course is designed to meet the needs of high school teachers and others not planning to take their major work in geology. Desirable antecedent, Chemistry 1. Professor Taylor, Mr. Williams. 4 hours.

For Undergraduates and Graduates

Geology 102a. Crystallography and Mineralogy: A study of the laws of crystallization, and the classification of crystals. The physical properties, chemical composition, and mode of occurrence of minerals. Prerequisite, Chemistry 1. Deposit required. 3 hours.

Geology 103b. Mineralogy: A continuation of Geology 102. Descriptive mineralogy and blowpipe analysis. Prerequisite, Geology 102. Deposit required. Mr. Williams. 3 hours.

Geology 104b. Economic Geology: A study of ore deposits with respect to their origin, mode of occurrence, and value. Also a study of coal, salt, gypsum, etc., with particular reference to their occurrence and development in Oklahoma. Prerequisites, Geology 1, 3, or 102, and general chemistry. Desirable antecedents, Geology 100, 101, 105, 106. Professor Taylor. 4 hours.

GERMAN

Professor House

German 1. Beginning German: Daily exercises in pronunciation; memorizing of easy phrases; study of the inflection of the important parts of speech, and of the elements of syntax; writing translations of English into German, and paraphrasing of German sentences. Such conversation is given in class as will impress the student with the importance of the language in oral communication. Given in three sections in the first semester and in one section in the second semester. Professor House, Associate Professor Voss, and Assistant Professor Steitz. 4 hours.

German 2. Beginning German: This is a continuation of elementary German as given in German 1. Prerequisite, German 1, or equivalent. Given in three sections in the second semester, and in one section in the first semester. Professor House, Associate Professor Voss, and Assistant Professor Steitz. 4 hours.

German 3. German Prose and Poetry: The reading of moderately difficult prose and poetry, selected from such authors as Schiller, Freytag, and others; the study of word-formation, syntax, and drill in conversation accompanies each lesson. One hour a week is devoted to the study of prose composition. Prerequisite, German 1

and 2, or the equivalent. Given in two sections. Professor House and Associate Professor Voss. 4 hours.

German 4b. German Prose and Poetry: Continuation of German 3. Given in two sections. Professor House and Associate Professor Voss. 4 hours.

German 9a. Scientific German: The aim of this course is to afford students of the sciences an acquaintance with technical scientific nomenclature and style. Reading of German scientific texts and articles in current technical periodicals will be required of students. Prerequisites, German 1 and 2. Wait's German Scientific Reader. Assistant Professor Steitz. 2 hours.

German 10b. Scientific German: A continuation of German 9. Reading of German scientific texts (Goeschen Sammlung) and articles in current technical periodicals. Assistant Professor Steitz. 2 hours.

MATHEMATICS

Professor Reaves, Associate Professor Duval, Assistant Professor Gossard, Mr. Meacham

Mathematics 5. College Algebra: Embracing the subjects of imaginaries, variables and limits, permutations and combinations, binomial theorem, series, undetermined coefficients, logarithms, determinants, and theory of equations. This course presupposes a minimum of one and one-half years in algebra. Eight sections first semester and one section second semester. Professor Reaves, Associate Professor Duval, Assistant Professor Gossard, Mr. Meacham. 4 hours.

Mathematics 6a. Trigonometry: This is a brief course intended primarily for engineering students, but open also to others. Prerequisite, Mathematics 2 or equivalent. Two sections. Assistant Professor Gossard, Mr. Meacham. 3 hours.

Mathematics 14. Analytic Geometry: Equations and their loci; transformation of co-ordinates; the straight line, circle, and other conic sections; general equation of the second degree; introduction to solid geometry. Prerequisite, trigonometry. Two sections each semester. Professor Reaves, Associate Professor Duval, Mr. Meacham. 4 hours.

For Undergraduates and Graduates

Mathematics 117. Calculus: Course in differential and integral calculus. Prerequisite, Mathematics 14. One section, first semester. Assistant Professor Gossard. One section, second semester. Professor Reaves. 4 hours.

Mathematics 118. Calculus: A continuation of Mathematics 117 with numerous applications to practical problems. Prerequisite.

Mathematics 117. One section first semester. Associate Professor Duval. One section second semester. Assistant Professor Gossard. 4 hours.

MECHANICAL DRAWING

Professor Felgar, Professor Dwight

Primarily for Undergraduates

Mechanical Drawing 1a. Technical Drawing: Free-hand lettering, standard forms for titles and choice of alphabets. Elementary mechanical drawing through the last ten weeks. Graphic solution of conic sections and other plane curves. Professor Dwight. 2 hours.

Mechanical Drawing 2b. Simple isometric and orthographic projections, shade lines and shadows, working drawings, tinting, and conventional representation. Continued practice in lettering. Prerequisite, Mechanical Drawing 1. Professor Dwight. 2 hours.

Mechanical Drawing 3a. Descriptive Geometry: Orthographic projections in the solution of problems of the right line and plane; of curved and warped surfaces, intersections, and developments. Principles of shades, shadows, and linear perspective; isometric projections. Recitations and drawing. Prerequisite, Mechanical Drawing 2. Professor Felgar. 3 hours.

Mechanical Drawing 4a. Machine Drawing: Drawing of machine details from sketches and notes; sketching of machine parts and preparation of working drawings; tracing and blue printing; practical drafting-room methods. Preparation of a complete set of drawings for some simple machine. Prerequisite, Mechanical Drawing 2. Professor Dwight. 2 hours.

Mechanical Drawing 5b. Machine Design: Theory and design of gears, screws, cams, belts, and simple machines. Recitations and drawing. Prerequisite, Mechanical Drawing 2. Professor Dwight. 2 hours.

Mechanical Drawing 51a. Kinematic Drawing: Velocity diagrams, valve and indicator diagrams, and preliminary work for valve and steam engine design. Professor Dwight. 2 hours.

MECHANICAL ENGINEERING

Professor Felgar, Assistant Professor Wohlenberg

Primarily for Undergraduates

Mechanical Engineering 1a. Elements of the Steam Engine and Boiler: A brief study of the principles of steam engines, boilers, and steam turbines. Assistant Professor Wohlenberg. 4 hours.

Mechanical Engineering 2b. Valve Gears and Indicators: A

study of the valve motions of the steam engine and of indicator cards. Professor Felgar. 4 hours.

Mechanical Engineering 3a. Mechanical Laboratory: Study and calibration of instruments and testing of simple machines. Professor Felgar. 1 hour.

Mechanical Engineering 4b. Thermodynamics: The fundamental laws of thermodynamics and their application to heat engines. Saturated and superheated vapors. Assistant Professor Wohlenberg. 3 hours.

Mechanical Engineering 52b. Steam Engine Design: Complete design of a steam engine with detailed working drawing of all its parts. Assistant Professor Wohlenberg. 2 hours.

Mechanical Engineering 56a. Power Plant Design: Selection of the plan and elevation of power plant and machinery, of piping systems, and of coal and ash handling systems. Professor Felgar. 2 hours.

Mechanical Engineering 57b. Power Plant Design (Continued): Professor Felgar. 2 hours.

Mechanical Engineering 67b. Thesis: A complete investigation of some subject relative to mechanical engineering, or the design of some special apparatus or machine.

For Undergraduates and Graduates

Mechanical Engineering 153a. Steam Power Plant Engineering: A study of fuels, types of boilers, and accessories in detail. Prerequisite, Mechanical Engineering 1. Professor Felgar. 2 hours.

Mechanical Engineering 154b. Steam Power Plant Engineering: A continuation of Mechanical Engineering 153. A study of the steam engine, steam turbine, steam pumps and accessories, with reference to design, cost, and installation of a power plant. Prerequisite, Mechanical Engineering 153. Professor Felgar. 2 hours.

Mechanical Engineering 155b. Steam Power Plant Engineering: A continuation of Mechanical Engineering 154 with special reference to power plant accessories, cost of power, tests and types of specifications. Prerequisite, Mechanical Engineering 154. Professor Felgar. 2 hours.

Mechanical Engineering 158a. Application of Thermodynamics to Steam Prime Movers: Correlation of theory and practice in reciprocating steam engines and steam turbines. Assistant Professor Wohlenberg. 4 hours.

Mechanical Engineering 161a. Mechanical Engineering Laboratory: Fuel and flue gas analysis, calorimetry, efficiency tests

of steam and gas engines. Assistant Professor Wohlenberg. 1 hour.

Mechanical Engineering 162b. Mechanical Engineering Laboratory: A study of lubricating oils and lubrication, efficiency tests of steam and gas engines with special reference to thermal efficiency including a complete boiler and engine test. Assistant Professor Wohlenberg. 1 hour.

Mechanical Engineering 163a. Refrigeration: This course includes the study of prime movers, for refrigerating machinery, refrigeration, and refrigerating machinery, using texts and catalogues. Professor Felgar. 4 hours.

Mechanical Engineering 164b. Heating and Ventilation: Nature and properties of heat, principles of ventilation, heat given off by radiating surfaces, steam heating boilers, various systems of piping, mechanical systems of heating and ventilation. Professor Felgar. 3 hours.

Mechanical Engineering 165b. The Gas Engine: Power, efficiency, and economy of gas engine. The use of gasoline, petroleum, distillate, and producer gas. The producer gas plant. Prerequisite, Mechanical Engineering 164. Assistant Professor Wohlenberg. 2 hours.

Mechanical Engineering 167b. Mathematical Theory of Thermodynamics: The methods of investigation of thermal properties of vapors and gases. Assistsnt Professor Wohlenberg. 3 hours.

Primarily for Graduates

Mechanical Engineering 200. Advanced Mechanical Eng neering Research: Lectures and laboratory. Credit may be received in each new subject taken up, but not to exceed five hours credit will be given in any one semester.

Mechanical Engineering 201. Heating Ventilation: Building a design of a vacuum system heating plant, with direct and indirect radiation. Selection of equipment, estimates of cost. Lectures and design periods. 4 hours.

Mechanical Engineering 202. Refrigeration; A complete design of a compression ammonia refrigeration system. Lectures and design periods. 4 hours.

MECHANICS

Professor Felgar, Professor Dwight

For Undergraduates and Graduates

Mechanics 151a. Mechanics: A mathematical study of the laws of statics and kinematics; friction; the fundamental dynamical principles; kinetics of particles and of rigid bodies; some discussion of

the dynamics of rotation and the gyroscope. Prerequisites, Mathematics 117 and Physics 1 or 51. Professor Dwight. 4 hours.

Mechanics 152a. Applied Mechanics: The application of mechanics to the solution of engineering problems and especially the use of graphics as a means of attack. Prerequisite, enrollment in Mechanics 151. Professor Dwight. 2 hours.

Mechanics 153b. Mechanics of Materials: A study of the strength of materials, stresses and strains in beams, columns, and shafts; elasticity, flexure, safe loading, designing. Prerequisite, Mechanics 151. Professor Dwight. 4 hours.

Mechanics 154b. Resistance of Materials: Experiments and investigations in the materials laboratory to verify the experimental laws; problems in engineering practice; the quality and requirements for structural materials. Prerequisite, enrollment in Mechanics 153. Professor Felgar and Professor Dwight. 2 hours.

Mechanics 155b. Theoretical Hydraulics: Principles of hydrostatic and hydrodynamic pressure; laws that govern the flow of water through orifices, weirs, pipes, and canals; determination of experimental coefficients and their use. Recitations and laboratory. Prerequisites, Physics 1 or 51 and Mathematics 117. Professor Dwight. 3 hours.

Mechanics 156a. Machine Design: Proportioning and designing of machine parts for durability and strength. Prerequisite, Mechanics 151. Professor Dwight. 2 hours.

MINING GEOLOGY

Professor Taylor

Primarily for Undergraduates

Mining Geology 51a. Elements of Mining Engineering: A course intended to introduce the student to the chief features of the profession of mining engineering. 3 hours.

Mining Geology 52b. Mining Engineering: This course deals with the mechanism and tools of mining, methods of prospecting and the opening up of deposits, including the sinking of shafts and slopes, the driving of levels, and the working of stopes or rooms. 4 hours.

Mining Geology 53a. Mining Engineering (Continued): In this course are considered hydraulicking, tramming, hoisting of ore, coal, and men, pumping, ventilating, lighting, explosions, fires, underground survey, and manipulation of men. 2 hours.

Mining Geology 54a. Ore Dressing: This course treats of the various methods of crushing and concentrating ores. 3 hours.

Mining Geology 55a. Metallurgical Laboratory: A course in which the student makes a practical study of the working of machines, furnaces, etc., used in the processes of ore preparation and metallurgy. The course further treats of roasting, smelting, amalgamating, leaching, and electrolytic treatment of copper, lead, silver, and gold ores. 4 hours.

Mining Geology 56a. Mining Operations: This course is in part a continuation of Mining Geology 55, but includes also a study of the various motors and sources of power in mining work. 2 hours.

Mining Geology 57b. Metallurgy of Ferrous and Non-Ferrous Mineral: This course deals with the processes for extracting the various metals from their ores and treats of fuels and refractories, etc. Lectures. 3 hours.

PHYSICS

Professor Haseman, Assistant Professor Rapp

Primarily for Undergraduates

Physics 51a. Mechanics, Sound, Heat: Lectures, recitations, laboratory, and assigned reading. 5 hours.

Physics 52b. Electricity, Magnetism, Light: Lectures, recitations, laboratory, and assigned reading. 5 hours.

For Undergraduates and Graduates

Physics 104a. Electricity and Magnetism: Lectures and recitations. The general theory of potential, lines and tubes of force, fields of force, and influence of media as applied to electrostatics and magnetism. A study of the electric current with the theory of electromagnetism and electromagnetic apparatus. 4 hours.

Physics 105a. Electricity and Magnetism: A laboratory course including experiments on the accurate measurement of current, resistance, electromotive force, capacity, induction, hysteresis loss, calibration of electrical instruments, etc. Must be accompanied or preceded by Physics 104. 1 hour.

PHYSICAL EDUCATION

Professor Soutar

Physical Education 1a: Consists of a definite "day's order" of exercises, supplemented by light apparatus work and indoor and outdoor games. Required of freshmen. Professor Soutar. 1 hour.

Physical Education 2b. A continuation of Physical Education 1. Required of freshmen. Professor Soutar. 1 hour.

SHOP WORK

Mr. Davis

Shop 1a. Woodworking: The care and use of tools and woodworking machinery; exercises in sawing, planing, mortising, framing, dove-tailing, turning, and pattern making. Deposit required. 1 hour.

Shop 2b. Forge and Foundry Work: Forge work consists of care of forge, use of tools, forging, welding, tempering, tool making; foundry work, moulding, casting, cupola practice, brass casting. Deposit required. 2 hours.

Shop 3a. Machine Shop: Chipping, filing, use of lathe, drill press, and emery wheels. Deposit required. 1 hour.

Shop 4b. Machine Shop: A continuation of Shop 3, using the shaper, planer, grinding machine, and milling machine, and constructing special exercises. Deposit required. 1 hour.

THE SUMMER SESSION

FACULTY

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

EDWIN DEBARR, Ph. D.
Vice-President of the University, Professor of Chemistry.

WARREN WAVERLEY PHELAN, Ph. D.
Director of the Summer Session, Professor of Psychology and Education.

JAMES SHANNON BUCHANAN, B. S.
Dean of the College of Arts and Sciences, Professor of History.

FREDRIK HOLMBERG, B. M.
Dean of the School of Fine Arts, Professor of Music.

JAMES WELLINGS STURGIS, Ph. D.
Professor of Latin.

SAMUEL WATSON REAVES, Ph. D.
Professor of Mathematics.

HENRY HIGGINS LANE, Ph. D.
Professor of Zoology.

ERRETT RAINS NEWBY, B. M., B. A.
Secretary, Registrar.

GAYFREE ELLISON, B. S., M. D.
Professor of Bacteriology.

ANDREW CLARKSON PARSONS, A. B.
Professor of Secondary Education, High School Inspector.

CHARLES FRANCOIS GIARD, Graduate, New England Conservatory of Music.
Professor of Piano and Theory of Music.

JOSEPH WHITEFIELD SCROGGS, A. M., D. D.
Professor, University Extension, Philosophy.

WILLIAM ANTON SCHMIDT, M. A.
Professor of the History and Administration of Education.

RICHARD GRAY SOUTAR, B. A.
Professor of Physical Education.

JESSE LEE RADER, M. A.
Librarian.

PATRICIO GIMENO, B. A.
Associate Professor of Romance Languages.

ANDREW ROBERT RAMEY, M. A.
Assistant Professor of English.

BENJAMIN GILBERT OWEN.
Assistant Professor of Physical Education and Coach.

GEORGE FREDERICK WILLIAM SCHMIDT, B. M.
Assistant Professor of Voice.

PAUL S. CARPENTER, Graduate, Broadstreet Conservatory of Music, Philadelphia.
Assistant Professor of Violin.

HARRY CLINTON GOSSARD, Ph. D.
Assistant Professor of Mathematics.

AUGUST STEITZ, Ph. D.
Assistant Professor of German.

FOWLER DELL BROOKS, M. A.
Assistant Professor of Psychology and Education.

HARRIET JULIA HOPKINS, B. S.
Assistant Professor of Domestic Science.

EDWARD EVERETT DALE, A. M.
Instructor in History.

EDGAR D. MEACHAM, B. A.
Instructor in Mathematics.

MOLLIE ANNE PETERSON, Ph. B.
Instructor in Domestic Art.

GILBERT HARMER SMITH, B. A., B. D.
Instructor in English.

WALTER STANLEY CAMPBELL, M. A.
Instructor in English.

LUCIEN QUITMAN CAMPBELL, B. A.
Instructor in English and Debating Coach.

THOMAS BRUCE ROBB, M. A.
Instructor in Economics.

MARIE ANDERSON, B. A.
Assistant in Public Speaking.

LOTTIE JESSIE BOHRER, B. A.
Assistant in Physical Education.

Special Lecturers

A. C. MONAHAN, Specialist in Rural School Administration, U. S. Bureau of Education, Washington, D. C.
Rural Education.

LOUIS W. RAPEER, Ph. D.
Professor of Education, Pennsylvania State College.
Educational Hygiene.

W. C. CRAWFORD, A. M., L. H, D.
Master Industrial School for Boys, Boston, Mass.
Vocational Educational.

P. E. BURROUGHS, D. D., Education Secretary of Baptist Sunday School Board, Nashville, Tennessee.
Religious Education.

LECTURER IN INTERNATIONAL POLITY AND CONCILIATION.
To be appointed by the Carnegie Endowment for International Conciliation.

THE SUMMER SESSION, 1916

Class work in the Summer Session begins at 7:05 A. M., Monday, June 12, and will continue daily, Sundays excepted, to Friday, August 4. Graduation exercises for those who complete the work necessary for a degree will be held at 8:00 P. M., on August 4. Students should be present on Saturday, June 10, for the purpose of enrolling, and those who are uncertain about the sufficiency of their entrance work should be present on Friday, June 9.

Students may register at any time after May 22nd for the Summer Session. Application for registration should be made to the Registrar.

ORGANIZATION

The work of the Summer Session has been organized to meet the needs of several classes of students.

A. Candidates for the degree of Bachelor of Arts in the College of Arts and Sciences;

B. Candidates for the degree of Master of Arts in the Graduate School;

C. Supervisors of Rural Education and Teachers of Normal Training classes in approved high schools:

1. County superintendents and teachers who expect to become candidates for such positions;
2. Teachers of normal training classes in approved high schools.

D. Teachers:

1. Teachers who are candidates for the degree of Bachelor of Arts in the College of Arts and Sciences;
2. Teachers who are candidates for the degree of Master of Arts in the Graduate School;
3. Graduates of the Oklahoma State Normal Schools;
4. Graduates of the normal training classes of approved high schools;
5. Teachers who desire subjects that may be credited towards state and county certificates;

E. Students making up admission requirements;

F. Students interested in the study of domestic science and domestic art;

G. Superintendents, principals, and teachers interested in physical education and in coaching athletics.

H. Students in the theory and practice of music, and in dramatic expression.

A. CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

Candidates for the degree of Bachelor of Arts should confer with the Dean of the College of Arts and Sciences with reference to the choice of subjects. For such students instruction will be offered in the following branches, the details of which are given under Description of Courses:

Bacteriology	English	Music
Business	German	Philosophy
Chemistry	History	Physical Education
Domestic Art	Hygiene	Sociology
Domestic Science	Latin	Spanish
Economics	Mathematics	Zoology
Education		

B. CANDIDATES FOR A MASTER'S DEGREE.

Candidates for the degree of Master of Arts should confer with the Dean of the Graduate School in order to make sure that the proper admission credits have been filed, and that the courses of study have been selected in accordance with the regulations governing the Graduate School as set forth in the general catalogue of the university.

Candidates for a master's degree must complete thirty-two hours of work in one major subject and one or two minor subjects. To each minor subject shall be devoted approximately one half of the work devoted to the major subject. The major and minor may fall within the same department. If two minors are selected one must be chosen from another department.

By consent of the department concerned, courses from closely related subjects may be chosen from departments other than those in which the major and minor lie. If the work be chosen from not more than two departments and the courses in the major department are selected principally from those listed for graduates only, the degree may be qualified by the name of the major department.

Each candidate for a master's degree must prepare a thesis. The subject of the thesis, approved by the student's major professor, must be chosen before the close of the first summer session the candidate is in attendance. The completed thesis must be in the hands of the student's major professor two weeks before the close of the summer session in which the student applies for his final examination.

With the consent of the department concerned, eight hours' credit towards the master's degree may be earned through correspondence courses. Eight hours constitute full work for a summer session. It is, therefore, possible for a student to complete the work for the de-

gree by attendance upon three summer sessions, supplemented by eight hours of credit earned through correspondence courses. The correspondence courses must not be taken until after the completion of one semester or one summer session in residence and must be completed before the beginning of the candidate's last summer session in residence. All correspondence courses must be approved by the student's major professor and by the Dean of the Graduate School.

The University of Oklahoma has decided to strengthen its graduate work in the summer session by placing emphasis upon a few departments selected with reference to the most urgent need of teachers. In each of these departments a sufficient amount of graduate work will be offered to enable the candidate to complete the requirements for major work by attendance upon summer sessions alone. Graduate work of major rank is offered inother departments, but attendances, during a regular semester may be necessary in order to secure the number of hours required in a major subject. The departments so selected are Biology, Education, English, and History. Graduate work of minor rank is offered in several departments.

During the Summer Session of 1916 the following graduate courses are offered:

Major Courses

Economics 102	Education 119	History 106
Economics 104	Education 121	History 212
Education 101	Education 122	Mathematics 141
Education 102	Education 126	Philosophy 126
Education 107	English 107	Zoology 101
Education 112	English 121	Zoology 104
Education 113	German 125	Zoology 106
Education 118		

All major courses may be counted as minors.

Minor Courses

Chemistry 121	Education 133	English 112
Education 131	Education 140	History 156
Education 132	Education 145	Latin 107
		Mathematics 118

C. SUPERVISORS OF RURAL EDUCATION AND TEACHERS OF NORMAL TRAINING CLASSES IN APPROVED HIGH SCHOOLS.

In recognition of the importance of improved work in the rural districts, State Superintendent R. H. Wilson has requested the University to provide courses specially adapted to those who may have supervision of rural schools and for those engaged in preparing teachers for

rural schools. Consequently in addition to the usual courses in psychology and education, the University will give in its summer session courses especially adapted to two classes of teachers:

FIRST, Those who are county superintendents, or who expect to become such. Principals of schools who expect later to become candidates for positions as county superintendents will find it advantageous to have given definite study beforehand to rural conditions and to the problems of rural school supervision. For such individuals, the courses in rural leadership below will be of interest. The details are given under Description of Courses:

Economics 104, Rural Economics
Education 119, Rural Education
Education 122, State and County Educational Administration
Education 142, Playground Organization and Management
Sociology 3, Rural Sociology.

SECOND, Teachers of normal training classes in approved high schools. For teachers of psychology and pedagogy in the high schools that are maintaining normal training classes, the courses below will be offered, the details of which are given under Description of Courses:

Education 126, Methods of Teaching Pedagogy
Philosophy 126, Methods of Teaching Psychology

These courses are of graduate grade and may be counted towards a master's degree. They will take one-half of a pupil's time and leave the other half free for the study of psychology, education or other subjects.

D. COURSES FOR TEACHERS

The Summer Session presents material of special interest to teachers along the following lines:

FIRST. For teachers who have little or no university credit but who expect ultimately to become candidates for a degree. Such teachers should select subjects immediately applicable to their work of teaching, but preferably from among the courses required for graduation.

SECOND. For teachers holding a bachelor's degree who, by attendance during three summer sessions, and by completing eight hours by correspondence, may obtain a master's degree. The general plan of work required for a master's degree is outlined above under the heading, "Candidates for a Master's Degree."

The master's degree in education may be obtained by selecting education as the major and pyschology as the minor subject and completing in these two departments thirty-two hours of work selected from among courses counting for credit for a master's degree. In general, however, it is recommended that part of the time be given to an ad-

ditional minor to be selected from some other department offering graduate courses in subjects taught in high schools, or education may be taken as a major and two such subjects as minors.

Courses in special methods of teaching various high school subjects may be counted as graduate work in the Department of Education.

Candidates desiring a larger amount of graduate work in other subjects may make education or psychology as a minor. Teachers may thus secure graduate work in the subject or subjects that they regularly teach and combine these with general courses in education and specific instruction in methods of teaching.

THIRD. For graduates of the Oklahoma State Normal Schools, or equivalent normal schools, or those who have at least sixty hours of college credit. Such candidates should enroll in the School of Education. Arrangements have been made whereby graduates of the regular course of the Oklahoma state normal schools, who have had two years of normal training above the admission requirements to the university, are granted approximately sixty hours of credit, thus enabling them to complete the university course and earn a degree in two years. These teachers likewise should select subjects immediately applicable to the work of teaching. They should, however, confer with the Dean of the College of Arts and Sciences with reference to completing the prescribed courses.

FOURTH. For graduates of the normal training courses in approved high schools who desire to supplement their professional training before beginning to teach, or who desire to begin at once to secure credits towards a degree. By attendance upon the summer sessions before and after their year of teaching, a half year of university credit can be secured. The work may be either the required courses leading to a degree or courses especially valuable for rural school teachers: for example, Rural Economics and Rural Sociology.

FIFTH. For teachers who desire to "build up" a state high school or other certificate. Since many teachers desire subjects that may be credited on state or county certificates, thus exempting the candidates from examination in that subject, the Summer Session will present several courses designed to meet this need. While these courses are primarily intended for direct college credit, or for credit towards a state high school certificate, they may by law be presented to county superintendents for credit towards county certificates.

The University of Oklahoma aims to give thorough instruction in these subjects, consequently in the longer and more difficult ones that include more than can be mastered in a single summer session, only the first half is offered at this time. A second half may be taken at a later summer session. Only part of the subjects required for a state

high school certificate are offered this session, the others being reserved for a subsequent year. Every student, however, will find all that he can properly do in one summer session. Credit toward a certificate may be obtained in the subjects below, the details of which are given under Description of Courses. Similar credit may also be secured for some of the subjects listed under Courses for Admission.

Certificate Subject	Summer School Course
Algebra:	Mathematics 2, (See also Mathematics A under Courses for Admission)
American Literature:	English 11
Biology:	Zoology 101
Composition:	English 1, (See also English C under Courses for Admission.)
Domestic Science:	Domestic Science 1
Drawing:	Art 20
Economics:	Economics 1
English Literature:	English 3
German:	German 1, Intermediate German, German 125.
General History:	History 13
Grammar:	English 18, (See also English A under Courses for Admission.)
History of Education:	Education 4
Latin:	Latin 1, Latin 9, Latin 107 (See also Latin A and Latin C under Courses for Admission.)
Methods and Management:	Education 121, (See also Education A under Courses for Admission.)
Music:	Music 8, Music 9, and Education 140
Oklahoma History and Civics:	History 12
Oklahoma School Law:	Education 7
Philosophy of Education:	Education 101
Psychology:	Philosophy 51 (See also Philosophy A under Courses for Admission)
Solid Geometry:	Mathematics 1 (For plane geometry, see Mathematics D under Courses for Admission.)
United States History:	History 2

E. COURSES FOR ADMISSION

A limited number of courses will be given for students seeking to make up admission credits. These courses are of standard high school grade and are so credited towards admission to the university. The

subjects below are offered to make up such deficiencies.

		Recitations per wk.	Admission units
Education A	Pedagogy	6	One-half
English A	Grammar	6	One-half
English C	Composition	6	One-half
Latin A	Beginning Latin, first half	6	One-half
Latin C	Caesar, first half	6	One-half
Mathematics A	Beginning Algebra	6	One-half
Mathematics D	Plane Geometry, second half	6	One-half
Philosophy A	Introductory Psychology	6	One-half

F. COURSES IN DOMESTIC SCIENCE AND ART

For students interested in domestic science and domestic art, courses in basic sciences as well as in these special subjects are offered as stated below. The details of these courses are given under Description of Courses.

Bacteriology 2	Domestic Bacteriology
Chemistry 61	Household Chemistry
Art 20	Freehand Drawing
Art 22	Textiles
Art 25	Costume Design
Domestic Science 1	Selection and Preparation of Foods
Domestic Science 14	Home Administration
Education 145	Teachers' Course in Domestic Science
Hygiene 1	Principles of Hygiene and Sanitation

G. COURSES IN PHYSICAL EDUCATION AND IN COACHING ATHLETICS

Since many superintendents and principals, especially those in the smaller schools; must also act as coaches of athletic teams, the University of Oklahoma will provide an unusually good opportunity for such teachers to study coaching under expert teachers. Special courses in coaching football, basketball, baseball, and track for men; and in coaching hockey, tennis, etc., for women will be provided.

Attention is also called to the course in playground organization and management.

H. STUDENTS IN THE THEORY AND PRACTICE OF MUSIC AND IN EXPRESSION

In the School of Fine Arts courses in public school music and in the methods of teaching public school music will be given.

Private lessons in violin, in piano, in voice and in expression will be given by regular members of the faculty of the School of Fine Arts, as indicated under the description of the courses of study. For this instruction the regular fees are charged as indicated under each subject.

ADMISSION

For entrance to the Summer Session no formal examinations will be required, but admission will be granted upon application when it shall appear to the Director of the Summer Session that the applicant is of sufficient maturity and training to profit by the exercises of the session.

Students who desire to become candidates for a degree must satisfy the regular requirements for admission, as stated briefly below and described more fully in the general catalogue.

Enrollment

All students entering the university for the first time should go first to the Committee on Admission, which will be in session on Friday and Saturday, June 9 and 10, in Room 102, Administration Hall. Those who expect to become candidates for a degree should bring a certified copy of their preparatory and other credits and should present these credentials to the Committee on Admission. This committee will give each student an admission card which should then be presented at the office of the registrar, Room 111, Administration Hall, where an enrollment card will be issued. This Enrollment card must be presented to the Committee on Enrollment, which will be in session in Room 116. It must then be taken for approval to the Director of the Summer Session, in Room 118. The enrollment card must then be filed with the financial clerk in Room 110, Administration Hall.

Students who have registered in the university at any time in the past should go at once to the registry office, Room 111, secure an enrollment card, and present it to the Enrollment on Committee. This enrollment card must then be approved by the Director of the Summer Session, Room 118, and filed with the financial clerk, Room 110.

Credits

In general, credit will be given at the rate of one college hour for sixteen exercises. A course of eight lectures weekly during the eight weeks will have a credit value of four hours in college. A smaller number of periods per week will receive credit in due proportion to the time spent.

The normal amount of credit obtainable during the session, by a student devoting his whole time to courses strictly of university grade is eight hours.

Students who do not enroll for credit will be given, on application certificates of attendance showing the amount and character of the work done.

A bachelor's degree represents 124 or more hours of credit, distributed according to the requirements of the College of Arts and

Sciences. A master's degree represents 32 or more hours of credit after the granting of the bachelor's degree.

Educational Museum

The Educational Museum of the University will be open during the summer session. It contains exhibits grouped under the following heads: School Books, School Supplies, School Work of various public schools of the state, School Furniture, and various supplementary materials for teaching geography, history, etc. School principals and superintendents will find here some of the best types of school desks, manual training, benches and tools, domestic science tables and ovens, etc., for their inspection. Teachers will find the exhibits of school work from some of the public schools of the state very helpful in suggestions for bettering their own work.

The Educational Museum is opened this year for the first time, and will be enlarged from year to year. It is the first in the history of the state, and can be made to serve the educational interests of the state. All summer session students should visit the various exhibits of the museum.

University Assembly

Regular assemblies will be held from 9:05 to 10:00 a. m. on Mondays and Thursdays at which time addresses by prominent men will be heard, and matters of general interest to the entire student body will be discussed.

Hours

During the summer session, each day is divided into the following periods:

In the forenoon, five one-hour recitation periods from 7 a. m. to noon; in the afternoon three one-hour periods from 2 p. m. to 5 p. m. are reserved for recitations, conferences and laboratory work. As indicated elsewhere a four-hour course meets eight hours a week, and a two-hour course, four hours a week.

RECREATION

The social and recreational features will be made attractive Provision will be made as hitherto for receptions, outings and picnics.

The summer school story-telling league under the direction of Miss Marie Anderson will meet on the steps of the Library building.

The play hour, folk dancing and the play festival will be under the direction of Professor Soutar and Miss Bohrer.

LECTURES AND MUSICALS

An attractive lecture program including both instructive and entertaining features will be presented. In addition to the regular

courses of the summer session arrangements have been made for morning and evening lectures and musicals by members of the faculty and visiting lecturers.

Special courses of lectures will be given, several of which are here announced:

MR. A. C. MONAHAN, Specialist in Rural School Administration, on Rural Education.

DR. L. W. RAPEER, on Educational Hygiene.

DR. W. C. CRAWFORD, Master of Boston Industrial School Boys', on Vocational Education.

DR. P. E. BURROUGHS, on Religious Education.

INTERNATIONAL POLITY AND CONCILIATION,
Lecturer to be appointed.

CONFERENCES

It is planned during the summer session to hold several conferences and round table discussions on leading educational questions. The following conferences will occur from week to week.

Nature Study Conference.
State Folk-Lore and Indian Legends.
Story Tellers' League.
Health and School Conference.
High School Conference.
Vocational Education Conference.
Educational Surveys.
Rural Life Conference.
County Supervision.
Religious Education Conference.
International Peace Conference.
Shakespeare Ter-Centenary Conference.
Musical Conference.
Play Ground Conference.

THE SCHOOL OF FINE ARTS IN SUMMER COURSES

Students expecting to enter the School of Fine Arts next fall, who are deficient in the technicat work required for admission, can attend the Summer Session to advantage and remove a part or all their deficiencies.

Instruction will be provided in all grades of work in violin, piano, and voice. Credit for work of college grade will be given toward the Bachelor of Music degree in the School of Fine Arts.

AFFILIATION OF SECONDARY SCHOOLS

AFFILIATION OF SECONDARY SCHOOLS

HISTORY OF ACCREDITING SCHOOLS IN OKLAHOMA

The first attempt at accrediting schools in Oklahoma was made by the University of Oklahoma through the faculty members and the Committee on Admission.

Later a member of the university faculty was appointed whose duty it was to visit and report on the work done in the different schools. The Agricultural and Mechanical College at Stillwater, Kingfisher College at Kingfisher, Phillips University at Enid, and the various state normal schools have had their part in standardizing schools. The work in standardization under these conditions has related particularly to meeting the entrance requirements of the institution concerned.

The purpose of the State Board of Education and of the university's Committee on Affiliation is to encourage schools to undertake the work needed in their respective communities and to advise and assist them in every way to do this particular work efficiently. It is recognized in the effort to accredit schools that the high schools exist for service to the community and not for the teaching of any particular set of subjects that will admit to the university.

In order to promote and maintain the best educational standards, Honorable R. H. Wilson, State Superintendent of Public Instruction, has issued a notice to all the higher educational institutions of the state under the control of the State Board of Education, to follow the table of officially accredited schools and admit students strictly in accordance with that table.

AFFILIATION OF SCHOOLS

It is understood that the high school exists for the training of the greater number who do not go to college, rather than for the smaller number who do go. The courses that constitute the best education for the duties of practical life constitute also the best preparation in general for the college or technical school. The standards set for affiliation are practically those of the North Central Association of Colleges and Secondary Schools, which were made jointly by colleges and high schools. If the pupil is to be credited for admission with high school courses, the courses should be given under conditions that develop as nearly as possible their full educational value. The co-operation of the high schools of the state will be welcomed in shaping the rules of affiliation to conform to the best standards. The educational

ideals promoted by the state should be such as to serve the interests of the high school and the higher educational institutions alike.

A high school with a curriculum largely elective is not expected to make specific requirements for graduation to fit the entrance requirements of the several institutions of higher education. It is enough to ask that a student be given an opportunity to select such work as will fit him to enter the school of his choice.

When the authorities of any school desire to have their school affiliated, formal application for inspection should be made to the High School Inspector, University of Oklahoma, Norman, Oklahoma.

The High School Inspector will visit the school and will make a report to the Committee on Affiliation which will, with the advice of the High School Inspector, determine the units of entrance credit to which each school is entitled. A formal notice of affiliation and a list of these units will be sent to the school.

In determining the amount of credit to be granted to any school, each subject will be considered separately. Credit will be granted for such subjects as are taught in accordance with the requirements stated below by competent teachers who have the use of adequate library and laboratory facilities. Each school therefore may secure credit for part or for all of its work. High schools offering less than four years' work will be accredited for such subjects as are sufficiently well taught to meet the requirements. Graduates of such schools, however, will need to complete their preparation in other accredited secondary schools, or by acceptable correspondence work.

Private academies, seminaries, and other secondary schools may be accredited on the same basis as public high schools.

REQUIREMENTS OF ACCREDITED SCHOOLS

A.—EQUIPMENT

1.—Building and Grounds. The building must be sufficient in size to meet the needs of the school. It must be properly heated and lighted; it must have sanitary toilets.

2.—Library. The library should be furnished with good encyclopedias and ample source and reference books for the various courses offered. Additions should be made to it each year.

3.—Laboratory. The laboratory equipment must be sufficient to do well all the science undertaken in the course. The laboratory must be up to date; additions should be made to it each year.

B.—UNITS AND COURSES OF STUDY

1.—A unit as used in this course of study shall be understood as a subject having proper class preparation with a recitation period of not less than forty minutes, five times per week, for thirty-six weeks.

2.—A standard high school course will cover four years' work of

thirty-six weeks each and should follow an elementary course of not less than eight years in length. Sixteen units shall compose the high school course. Not less than three units of English, and two of mathematics should be required for graduation.

3.—Only extraordinary pupils may be permitted to carry more than four units in one year, and in any case five units shall be the maximum.

4.—There should be one teacher to devote his entire time to the high school where one full year is offered; two, where two years are offered; three, where three years are offered; and four or more, where a full four-year course is given. The ratio of pupils to teachers should not be greater than thirty to one.

In some instances where the attendance is very small and high standards adhered to, upon recommendation of the High School Inspector, schools may be accredited with a smaller number of teachers. Under no condition will a high school be fully accredited unless there are at least three teachers in the high school who do not teach in the eighth grade. Teachers should not be required to instruct more than six periods per day. Five periods are recommended. The superintendent must have at least two periods for supervision.

5.—It is recommended that as teachers, only those who are graduates of authorized institutions in this state, or of universities or colleges meeting the requirements set forth by the North Central Association of Colleges and Secondary Schools, be employed.

The minimum scholastic attainment of any instructor should be equivalent to graduation from a standard college or university, including special work in the subjects taught. Such requirements, however, are not to be construed as retroactive.

In accredited schools the grade teachers should hold a university certificate, a normal school certificate, or a state high school certificate. Teachers with successful experience may be employed if they have a first grade county certificate.

C.—ADMISSION OF STUDENTS TO HIGH SCHOOL

All persons under twenty-one years of age applying for admission to the ninth year should present a certificate signed by the State Board of Education or the authorities of schools in cities of the first class, showing the completion in a satisfactory manner of the preceding grade.

D.—PERMANENT SCHOOL RECORDS

A permanent record must be kept in both the grades and high school.

E.—THE SMALL HIGH SCHOOLS

It is desired in particular to be helpful to those smaller high schools

which may be in need of encouragement or suggestions. The larger schools with their better equipment and ample funds will grow and function with less supervision.

Ambitious school men and boards of education naturally desire that their graduates secure as much credit as possible. This leads frequently to unfortunate results. Sometimes the school will attempt more work than can be done effectively with the teaching force and equipment available. Sometimes more of the time of the teaching force, in a small school, is given to the high school than proportionately belongs to it, while the grades are neglected. It must not be forgotten that the very foundation of efficient work in the high school is in the grades preceding the high school.

Although variety may be desirable it is much more important that the instruction be efficient. For a small school to attempt to offer too many subjects is evidence of weakness rather than of strength. It is better to teach 16 subjects efficiently than to attempt to teach 30 subjects with poor library and laboratory facilities and with teachers who have not had special preparation for the extra work.

In general, with the conditions that exist in the average Oklahoma community, schools with only four teachers in the system should not attempt work above the eighth grade. In such schools, it will be necessary for the principal to have charge of the seventh and eighth grades in addition to any high school work he may plan to do. It is clear that under such conditions not much high school work can be done except at the expense of efficient work in the seventh and eighth grades. Where the number of students is small and the conditions will permit, some ninth grade subjects may be offered. It is advised that these be selected according to the needs of the community. English, ancient history, algebra, and physical geography or agriculture, are possible subjects.

F.—COMBINATION OF CLASSES IN SMALL SCHOOLS

Whenever the teaching force and the number of students will permit, it is desirable to have the instruction in the different grades separate, but many schools will find it economical to make certain combinations in the course of study, alternating certain subjects. By following this plan sixteen units may be offered with only thirteen subjects in any one year.

The varying conditions in the different communities where a plan like this would be desirable, make it impossible to present here an outline of such a course of study that would be practical for general use. Further information, and assistance in solving the particular needs of each community may be obtained from the High School Inspector.

G.—FULLY AFFILIATED SCHOOLS BECOME INDEPENDENT DISTRICTS

Section 85, article 6, of the school law relating to independent, districts, reads as follows:

"Each city of the first class, and each incorporated town maintaining a four years' high school, fully accredited with the university, shall constitute an independent district, and be governed by the provisions of this article."

Those towns maintaining a four-year high school course and desiring to take advantage of the privileges of the independent district, should apply to the University of Oklahoma for affiliation.

CLASSIFICATION OF ACCREDITED SCHOOLS

When a high school is measuring up to the standards set by the State Board of Education and the University of Oklahoma, and is doing in an efficient manner the subjects undertaken, it is assigned to its proper classification in one of the following groups, and notice to that effect is contained in the next Bulletin of Affiliated Secondary Schools.

Secondary schools are accredited in four groups, as follows:

1. Those accredited for 15 or more units.
2. Those accredited for from 12 to 14 1-2 units.
3. Those accredited for from 8 to 11 1-2 units.
4. Those accredited for from 4 to 7 1-2 units.

SUBJECTS ACCEPTED FOR ADMISSION

1, 2, 3, English—College Entrance Requirements . 3
4 Fourth year English . . 1
5 Algebra through Quadratics 1
6 Plane Geometry . . . 1
7a Solid Geometry . . . 1-2
7b Algebra from Quadratics 1-2
(One-half year taken after plane geometry)
7bb The same when taken for one year and before plane geometry . . . 1-2
8a Trigonometry . . . 1-2
8b Advanced Algebra . 1-2
9 Ancient History . . . 1
10 Modern History . . 1
11 English History . 1-2 or 1
12 American History 1-2 or 1
13a Civics 1-2
13b Economics . . . 1-2
14 First year Latin . . 1
15 Caesar—four books . . 1
16 Cicero—six orations . 1
17 Vergil—six books . . 1
18 First year Greek . . . 1
19 Anabasis 1
20 Homer 1
21 First year German . . 1
22 Second year German . 1
23 Third year German . . 1
24 Fourth year German . . 1
25 First year French . . . 1
26 Second year French . . 1
27 Third year French . . . 1
28 Fourth year French . . . 1
29 First year Spanish . . 1
30 Second year Spanish . 1
31 Physics 1
32 Chemistry 1
33 Physical Geography 1-2 or 1
34 Botany . . . . 1-2 or 1
35 Zoology (one year) . . 1
35a Zoology (one-half year) 1-2
35b Physiology (one - half year) 1-2
35c General Science . . 1

OCCUPATIONAL SUBJECTS

(Not more than four units credited.)

36a Manual Training—Wood working . . 1-2 or 1
36b Forge and Foundry, or Machine Work . 1-2 or 1
37a Free-Hand Drawing . 1-2
37b Free-Hand Drawing . 1-2
37c Mechanical Draw. 1-2 or 1
38 Domestic Science . 1-2 to 3
39 Agriculture . . 1-2 or 1
40a Commercial Law . . . 1-2
40b Commercial Geography 1-2
41a Arithmetic . . . 1-2
41b Bookkeeping . . . 1-2
42 Shorthand and Typewriting . . 1
43 Music . . . . 1-2 or 1

PROFESSIONAL SUBJECTS

44 Psychology . . . 1-2
45 Methods 1-2
46 *Reviews . . . 1-2 or 1

*Credit will not be given for reviews unless the student also presents credit for psychology and methods.

In general, entrance credits are given only for such subjects as are enumerated in the table of units printed above and described in the following pages. Biology is by definition a half-unit of botany

and a half unit of zoology, and is so credited. Physical geography may include work in geology.

A unit course covered in one-half year will be given one-half unit of credit only when it is so indicated in the table. For example, botany completed in one-half year will be credited (as No. 34 1-2), while chemistry will not be credited for less than a full unit. A unit of work done in less than the standard time is credited in full only upon examination.

DESCRIPTION OF SUBJECTS ACCEPTED FOR ADMISSION

For a full description of the subjects accepted for admission, see the Oklahoma High School Manual, issued by the State Department of Education.

Two standard laboratory periods of ninety minutes each per week are required in physics, chemistry, botany, zoology, physiology, physiography, agriculture, domestic science and general science.

ENGLISH

1-4 English: A standard high school should offer not less than three units. A four-year high school should offer four units.

MATHEMATICS

When mathematics must be omitted from any year of the high school curriculum it is suggested that it may be left out in the third year, and that physics, which is an allied subject, be put in its place.

5. Algebra Through Quadratics: This unit should be given in the first year of the high school. It is required of all candidates for admission to freshman standing.

6. Plane Geometry: This unit should be given in the second year of the high school. It is required for admission to freshman standing.

7a. Solid Geometry: This half-unit is strongly recommended for all courses. It is a required course for students expecting to study engineering. It should be given the first half-year following plane geometry.

7b. Algebra; This half-unit is required for admission to certain schools of the university and is strongly recommended for all students. It should be given after the completion of plane geometry, preferably in the fourth year. A year's work in algebra in the second year of the high school is considered barely the equivalent of a half year's work after the training given by a year of plane geometry.

8b. Advanced Algebra: This course is not recommended for

secondary schools. Credit will be given for it only upon examination. Students receiving entrance credit for this half unit may not take college algebra in the university and receive credit.

8a. Trigonometry: This course is not recommended for secondary schools except under the most favorable conditions. Credit will ordinarily be given for it only upon examination. Students receiving entrance credit for this half-unit may not enroll for credit in trigonometry in the university.

HISTORY

Not more than four units credit in history will be credited.

9. Ancient: This unit should be given in the first or the second year of the high school work.

10. Modern: This unit should be given in the second or the third year of the high school course.

11. English History: One-half or one unit. This subject belongs in the third year of the high school, if given; but it should not be given at all unless four units are offered.

12. American History or American History and Civil Government: One-half or one unit. This subject, if credited, must be given in the third or the fourth year of the high school. Oklahoma history may be included.

CIVICS

13a. Civics: One-half unit.

ECONOMICS

13b. Economics: One-half unit.

FOREIGN LANGUAGES

Less than one whole unit in a foreign language will not be accepted for admission.

14 to 17. Latin: First Year Latin; Ceasar; Cicero; Virgil. One unit each.

18 to 20. Greek: Introductory Lessons; Xenophon's Anabasis; Homer. One unit each.

21 to 24. German: One to four years. One unit each.

25 to 28. French: One to four years. One unit each.

29 and 30. Spanish: One or two years. One unit each.

PHYSICS

31. Physics: This unit should be given in the third or in the fourth year of the high school. If chemistry is given, physics should cover the third year and chemistry the fourth. When physics is given in the third year, solid geometry and algebra from quadratics may well be put off until the fourth year. Must be one whole unit.

CHEMISTRY

32. Chemistry: One unit. Chemistry, if given, should be a fourth year subject. This course is not recommended for secondary schools.

PHYSICAL GEOGRAPHY

33. Physical Geography: One-half or one unit.

BOTANY

34. Botany: One-half or one unit. Where it is not possible to give a full year's work in botany, free-hand drawing, physical geography, or zoology may be combined with the botany, so as to make one year's work. Good laboratory equipment is necessary in order to secure a full unit of credit.

ZOOLOGY

35. Zoology: One-half unit or one unit. Good laboratory equipment is necessary in order to secure a full unit of credit.

PHYSIOLOGY

35b. Physiology: One-half unit. Physiology given before the middle of the tenth grade will be credited only upon examination.

"Where but half a year's work is offered in zoology, and where at the same time human physiology is taught, the zoology should be followed at once by the physiology or the two subjects combined into a single course. It is believed that time will be saved by this arrangement and that interest will be added to both subjects."

GENERAL SCIENCE

35c. General Science: One unit.

OCCUPATIONAL SUBJECTS

Not more than four units in occupational subjects will be accepted for admission.

36. *Shop Work: One-half to two units. A maximum of one unit in wood working, and possibly one additional unit in forge and foundry or machine work.

37a. *Free-Hand Drawing: One-half or one unit.

37b. *Mechanical Drawing: Ohe-half or one unit.

The same student may not present more than one and one-half units credit in drawing.

38. Domestic Science: One-half to three units.

39. Agriculture: One-half or one unit.

40a. Commercial Law: One-half unit.

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*Students entering the College of Engineering who receive entrance credit in shop or mechanical drawing, will be excused in some cases from the required work in these subjects and will be permitted to take elective subjects in their place; such substitutions are allowed only after examination by the engineering faculty.

40b. Commercial Geography: One-half unit. This course should be preceded by physical geography if possible.

41a. Arithmetic: One-half unit. This course will not be accepted unless taken after the student has completed a unit of algebra and a unit of plane geometry.

41b. Bookkeeping: One-half unit. No credit should be allowed unless the work is done neatly, accurately, and at a satisfactory rate of speed.

42. Shorthand and Typewriting: One unit. No credit should be given for either shorthand or typewriting if taken alone. No credit will be given unless the following speed is attained: 75 words per minute in dictation and 25 words per minute on the machine, new matter.

43. Music: One-half or one unit. The work for each week is divided up as follows: theory, three times a week; sight-singing, once a week; choral practice, once a week.

The study of elementary theory is based on "Primer and Facts about Music" by M. G. Evans, and the student must be able to pass examination and give needed illustrations on chapters 1, 2, 3, 4, and 5 the first semester, and a similar examination on Chapters 6, 7, 8, and 9 the second semester. It is important that the instructor in theory give plenty of illustrations when needed to explain points in the text. A thorough final examination must be required at the close of the course. Texts of equal merit may be substituted for the one mentioned.

In sight-singing a new scale (key) and a new song must be studied each week.

In choral practice a minimum of four standard chorus numbers, four folk songs and two national anthems must be learned each semester.

PROFESSIONAL SUBJECTS

None of these courses should be taught before the eleventh grade:

44. Psychology: One-half unit.

45. Methods: One-half unit.

46. Reviews: One-half or one unit. Credit will not be given for this subject unless the student also completes psychology and methods.

THE UNIVERSITY EXTENSION DIVISION

THE UNIVERSITY EXTENSION DIVISION

ADMINISTRATIVE STAFF

STRATTON DULUTH BROOKS, A. M., LL. D.
President of the University.

JOSEPH WHITEFIELD SCROGGS, A. M., D. D.
Director of Public Information and Welfare.

ANGELO C. SCOTT, A. M., LL. M.
Director of Extension Lectures and Classes, and High School Debating.

EDMUND BERRIGAN.
Assistant.

Co-operative Assistants

PHILIP G. PHELPS, A. B.,
Visual Instruction Lecturer.

‡LOUIS BAXTER FRITTS, A. M.,
Assistant in Visual Instruction.

CHARLES G. PIERREPONT,
Assistant in Community Music, and Instructor.

PURPOSE

University extension is one of the means by which the modern university endeavors to serve the entire population of the state; it is a link connecting every professor and instructor in the university with the entire citizenship of the state. So its value and merits are not its own as a separate department, but belong to the university as a whole, since there can be no university extension unless there is a university to be extended; and the almost unlimited service which university extension can render keeps pace with the development of the university.

ORGANIZATION

The University Extension Division of the University of Oklahoma includes six departments:

1. **Public Discussion and Debate.** This department promotes and assists debating, especially in rural schools and farmers' clubs.

‡Resigned, December 24, 1915.

Bulletins on important subjects for debate are issued, giving the results of wider reading than is possible to the average citizen. A Debaters' Manual of Parliamentary Practice and Argumentation and bulletins on "The Initiative and Referendum," "Unicameral Legislatures," "Guaranty of Bank Deposits," "Woman's Suffrage," "Consolidation of Rural Schools," "Preferential Primaries," "Government Ownership of Railways," "Single Tax," "Workmen's Compensation," "Sale of Munitions of War," etc., have been published or are in preparation.

These bulletins give complete, impartial, and authoritative information on both sides of important public questions. More than 100,000 of these bulletins have been issued. They have been used by organizations other than debating clubs in Oklahoma, and there has been a considerable demand for them in other states.

II. Correspondence Study. This department aids those who cannot attend the university to avail themselves of its service. By its means a student may take at least half of a university course while remaining at home and engaging in gainful occupations. Students temporarily compelled to leave the university may keep up with their class in at least a part of their work. By attending the Summer Session and supplementing it with correspondence work, many students may in time complete a college course. Graduate students may take by correspondence some hours of the work required for the master's degree. This will enable many superintendents and principals to advance their education while doing their life work. More than 700 courses are now offered by this department.

III. Public Information and Welfare. This department endeavors to furnish information on all subjects pertaining to the public welfare. In every university there are vast accumulations of knowledge for use in class work and for original research. This department endeavors to make this available to the entire state. The work is usually carried on under various bureaus. The municipal reference bureau gathers and distributes information concerning municipal matters such as water, light, paving, drainage, sanitation, fire protection, cleaning, policing, parks, amusements, and all other matters pertaining to municipal management. The Oklahoma Municipal League has combined its bureau of information with this bureau. A commercial reference bureau gathers information concerning everything pertaining to business,—commerce, manufacturing, markets, methods, inventions, and everything of importance to business men. A legislative reference bureau gathers information needed by legislators and public officials,—laws on all subjects, methods of dealing with various social problems in our own and other lands, etc., thus enabling them to profit by the world's experience. The bureau of social

center development aids in bringing about harmony and co-operation in communities and in rendering democracy more efficient. These departments are not new institutions; they only enable the state to utilize what it already has.

From time to time the Extension Division in co-operation with other departments of the University, holds conferences on subjects of public interest.

The ideal of the Extension Division is that when any department of the university sees an opportunity to render some special and useful service to the state, it finds in the Extension Division an organization designed to assist it.

Another activity of this department is visual instruction. The department furnishes, especially to rural communities, illustrated lectures on a great variety of subjects. During the current year, lectures have been secured and printed on the following subjects: Japan (3), India (2), Holy Land (2), Egypt, Picturesque Colorado (3), Washington City (2), Wonders of Our West, Trip Around the World in Eighty Minutes (2), Flower Forms and Colors (3), Animal Coloration (2), New Era in Rural Life, New Era in Rural Schools, South America, England and Scotland, Germany, Switzerland and Italy, Niagara Falls, Yellowstone Park, Keokuk Dam, History of Shoes, Panama Canal, Panama Exposition, Astronomy, Mexico, Hawaii, Good Roads, and a few others. With the aid of county superintendents these lectures have been given in hundreds of school districts.

Another activity of this department is community music. This department keeps music instructors in the field, who teach for two weeks at a place, endeavor to organize the musical resources of the community, and to establish a musical organization. The purpose is as much sociological as musical.

IV. Extension Lectures. This department furnishes lectures, either single or in courses, on a great variety of subjects. Four hundred and seventy lectures and other entertainments were given by members of the faculty during the year 1914-15, in one hundred and eighty towns and communities. These were given free of charge to these towns and communities, except as to traveling expenses. The university orchestra, glee club, and soloists are available for concerts without charge except expenses.

V. Extension Classes. Wherever there are enough students, this department endeavors to organize regular university classes to do freshman work though remaining at home. These classes do regular university work for which they receive university credit.

VI. High School Debating. This differs from the department of public discussion and debate in that high school debating clubs

are composed entirely of students. The same debating bulletins are used in both, and briefs, bibliographies, and other information furnished on a constantly increasing number of subjects. This department co-operates with the department of public speaking of the university and with the State High School Debating League.

Rural Traveling Libraries

Traveling libraries which supplement the bulletins on the various subjects are sent to communities on request. In order to make them of value to the entire community many other books have been added, covering a wide range of information and interest. These libraries are divided into small collections of twelve to fifteen books each, and are lent free of charge to any community or rural school for a period of not exceeding four weeks. To protect the state, each applicant is required to give security for the proper care and safe return of the books.

The most that can be done here is to outline briefly the work of this division. Full particulars will be furnished on application. To save labor and delay all inquirers are requested to address,

UNIVERSITY EXTENSION DIVISION,
Norman, Oklahoma.

THE OKLAHOMA GEOLOGICAL SURVEY

THE OKLAHOMA GEOLOGICAL SURVEY

OFFICERS

Charles William Shannon, A. M.	Director
George E. Burton, A. B.	Assistant Geologist
Fritz Aurin, M. A.	Chemist
Frank Gahrtz	Draftsman
Miss Charlie Nickle.	Chief Clerk

GENERAL STATEMENT

The Oklahoma Geological Survey was established in 1908. The law creating it located it at the University of Oklahoma. The objects and duties of the survey, as stated in the law establishing it, are:

"First: A study of the geological formations of the state with special reference to its mineral deposits, including coal, oil, gas, asphalt, gypsum, salt, cement, stone, clay, lead, zinc, iron, sand, road building material, water resources and all other mineral resources.

"Second: The preparation and publication of bulletins and reports, accompanied with necessary illustrations, maps, including both general and detailed descriptions of the geological structure and mineral resources of the State.

"Third: The consideration of such other scientific and economic questions as, in the judgment of the commission, shall be deemed of value to the people."

The survey is by law placed under the direction of a commission known as the State Geological Commission, composed of the Governor, the President of the State University and the State Superintendent of Public Instruction. This commission appoints the director and has control of the work of the survey.

Offices and Museums

The offices and drafting rooms of the survey are at present in the basement of the library building at the university. The laboratories and storage rooms are located in one of the temporary frame buildings on the campus. The museum is in the basement of Monnet Hall, in connection with the historical and ethnology museum.

Public Lectures

The members of the survey staff have given lectures before commercial clubs, public schools, normal schools and other institutions of the state, and before popular audiences. This work is regarded as educational. In the pursuit of the geological investigations the members of the survey staff readily obtain a large amount of information which, it is believed, no one else in the state is in a position to secure, and since this knowledge is in the possession of the state, it should be communicated to the citizens. It is the purpose of these lectures to impart such information to the public.

Mineral Collections for High Schools

Many of the high schools of the state have been supplied with representative mineral collections by the survey. These collections contain about sixty specimens, which are carefully labeled and sent out to the schools of the state, together with the publications of the survey, the only charge to the schools being the cost of transportation. Care is taken in the preparation of these collections to make them of special value to teachers of physiography and geography.

Field Work

Since the establishment of the survey in 1908, field investigations have been carried on practically without interruption. The work of the survey from 1908 to 1912 has been included in the biennial reports for 1908, 1910, and 1912. The detailed work which has been done is described in the list of publications and information concerning the field work may be obtained by referring to this list.

At the present time the field work being done deals with a study of the geological conditions in general, and a detailed study of the oil, and gas fields of the state, the building stone, road materials, and other economic products.

Educational Work

Various phases of educational work come within the scope of the work of the Geological Survey of the state. The survey originated as a geological and biological survey of Oklahoma Territory. In the regular duties the members of the survey secure a large amount of material and information concerning the natural resources of the state. This information is given to the citizens of the state through articles in the newspapers and by the publication of circulars and bulletins.

A study of the trees and shrubs of Oklahoma was begun in 1912, and has been continued to the present time. A preliminary circular was issued, giving the names of trees and shrubs found in the state and the localities where they were known to occur. A large amount of data has been secured, and it is planned to publish a complete report with

photographs and detailed descriptions of all species found. Specimens of all the plants listed are secured for an herbarium, which will be used as a checking list in the preparation of the report. In the preliminary circular issued there are probably a number of errors, and any additions, corrections, or suggestions which will be of value for the final report will be gladly received. It is of special importance that a careful study be made of our native trees, both from a scientific and an economic standpoint. The information so far collected has been secured while carrying on the regular field duties, and without additional cost to the state.

A bulletin is being prepared on the flowering plants of the state Field work has been in progress for more than two years and most of the state has been covered in collecting the material for this report.

Another line of work is a study of the birds of the state. Special investigation and collecting has been carried on in practically every county in the state, and the report is now being prepared for publication. The bulletin will be of much worth in showing the economic value of the bird life. It will be especially adapted for the general public and for use in the schools of the state.

Other special bulletins will include reports on the Oklahoma minerals, Oklahoma physiography, and related subjects. A sectionized state map 27 by 50 1-2 inches has been published, and other maps of special educational value have been printed.

Publications

The work of the Geological Survey is made known to the public chiefly through the publication and distribution of its printed reports and maps. Only a limited number of the various reports can be published, the number ranging from 1,000 to 3,000 copies. The manner of the distribution of such publications cannot readily be solved. The policy of the survey has been to send publications free to the public, and especially to citizens of the state. When a publication is issued, press notices are mailed to individuals and to all the leading newspapers of the state. In this way a large number of the people of the state learn of the publication, and those interested have an opportunity to secure such reports as long as they are available.

The list of publications given below shows the scope of the work which has been done by the survey:

Bulletin No. 1. Preliminary Report of the Mineral Resources of Oklahoma. (Edition exhausted.)

Bulletin No. 2. Rock Asphalt, Asphaltite, Petroleum and Natural Gas in Oklahoma. (Edition exhausted.) Replaced by Bulletin No. 19.

Bulletin No. 3. Geology and Mineral Resources of the Arbuckle Mountains. (Edition exhausted.)

Bulletin No. 4. Coal of Oklahoma. Replaced by Bulletin No. 26.

Bulletin No. 5. Structural Materials of Oklahoma. Postage 5 cents.

Bulletin No. 6. Director's Report and Brief Chapters on Twenty Oklahoma Minerals. (Edition exhausted.)

Bulletin No. 7. Clays and Clay Industries of Oklahoma. Postage 10 cents.

Bulletin No. 8. Road Materials and Road Conditions in Oklahoma. Postage 7 cents.

Bulletin No. 9. Lead and Zinc in Oklahoma. Postage 4 cents.

Bulletin No. 10. Glass Sand in Oklahoma. Postage 4 cents.

Bulletin No. 11. Gypsum and Salt of Oklahoma. Postage 9 cents.

Bulletin No. 12. Mineral Waters in Oklahoma. Replaced by Bulletin No. 30. (In preparation.)

Bulletin No. 13. Volcanic Ash in Oklahoma. Postage 6 cents.

Bulletin No. 14. Asphalt in Oklahoma. Replaced by Circular No. 5. (More complete report in preparation.)

Bulletin No. 15. Director's Biennial Report to the Governor with Mineral Production of Oklahoma from 1901 to 1911 as Part 2. Postage 3 cents.

Bulletin No. 16. Ponca City Oil and Gas Field Report. Postage 2 cents.

Bulletin No. 17. Geology of East-central Oklahoma. (Edition exhausted.)

Bulletin No. 18. Report on Cushing Oil Field. Postage 10 cents.

Bulletin No. 19. Petroleum and Natural Gas in Oklahoma. Postage 10 cents.

Bulletin No. 20. Granites of Oklahoma.

Bulletin No. 21. The Neva Limestone in Northern Oklahoma.

Bulletin No. 22. Director's Biennial Report for 1913-14. Postage 5 cents.

Bulletin No. 23. The Geology and Economic Value of the Wapanucka limestone.

Bulletin No. 24. Geology of a portion of Northeastern Oklahoma, Part I; Paleontology of the Chester Group in Oklahoma, Part II.

Bulletin No. 25. Bibliography of Oklahoma Geology, with Subject Index.

Bulletin No. 26. Coal and Coal Mining in Oklahoma. (Ready for press.)

Circular No. 1. Origin, Scope, and Purpose of the Oklahoma Geological Survey. (Edition exhausted.)

Circular No. 2. Brief Statement of the Geological History of Oklahoma. (Edition exhausted.)

Circular No. 3. Oklahoma Among the Southern States. Postage 1 cent.

Circular No. 4. Trees and Shrubs of Oklahoma. Postage 2 cents.

Circular No. 5. Rock Asphalts of Oklahoma and Their Use in Paving. Postage 2 cents.

Booklet: Resources of Oklahoma in a Pocket-book, by C. W. Shannon. (Edition exhausted. Revised copy now in preparation.)

Maps: Showing oil fields of the State.
Distribution of Oklahoma minerals. Postage 2 cents.
Physiographic map of Oklahoma. Postage 2 cents.
Progressive geologic map of Oklahoma.
Structural map of Cushing oil field. Postage 2 cents.
State map of Oklahoma. Postage (folded) 3 cents; (in tube) 10 cents.

ROLL OF STUDENTS

DEGREES CONFERRED

Twenty-third Annual Commencement, June 10, 1915

BACHELOR OF ARTS

Stella Lee Barton
John Montgomery Bell
Jim Boysden Bennett
*Lottie Jessie Bohrer
*Marie Emelyn Brauer
*Pauline Bretch
Rosetta Angeline Briegel
Marian Stuart Brooks
Ruth Winifred Brown
George Howard Burress
Elmer Alex Capshaw
William Roy Carder
Edna Cash
Ralph Edward Chase
Richard Gardner Copeland
Walter Odro Cralle
Howard Benjamin Cross
Raymond Lester Dawson
*Dollie Velma Duvall
*Josephine Ashburn Duvall
*Navarre H. Edwards
*Louise Elledge
Jennie Sophia Erickson
Henry Marshall Furman, Jr.
Fay Lester Garton
Joseph Malcolm Gentry
Edmond Bruce Geyer
*Jeanette Eleanor Griffin
**Harry Lee Stuart Halley
Edith Sawyer Hammond
Blanche H. Hayes
Roy Sylvester Hazeltine
James Julian Hill
Louis Harley Hoskins
Clyde Melvin Howell
Ernest Leland Howell
Clarence Edgar Hyde
Hiram Impson
*Walter Whitfield Isle
Eva Lovina Ives
**Neil Robert Johnson
*Ella Vera Jones
Grady Kirby
*Josephine Hadden Lawhead
*Sallie Long
Clifford R. Loucks
Wanda Alene Malarkey
*Mildred McClellan
Florence Elizabeth McClure
John Peebles McClure
Nellie Jane McFerron
Elizabeth Jane McMillan
Mallie Jo Miller
Richard Keith Miller
*Lela Mitchell
Roy Clyde Mitchell
Lewis Reavley Morris
Maude Ethel Morris
*Mary Lois Phillips
Beulah Rickard
Annie Laurie Robey
Grace Lucile Robey
Jesse Thomas Sanders
Roger William Sawyer
*Charles Bell Shapard
***Seward Ross Sheldon
Fred Butler Shepler
*Micah Pearce Smith
Talmage Austin Smith
Lucile Snider
Dean Moore Stacy
Charles Bridgeman Steele
*Gerald Stamper Tebbe
Chester Reams Thomas
Laurel May True
Lisby Lucius Wade
Donald Edward Walker
Hiram Alford Warner
*Edgar Wax
Herbert Earl White
Virginia Wickham
*Nell Wiggins
***Grace Williams
Lewis Otis Wilson
*Mildred Alice Winsor

*Receives also the University Life Teacher's Certificate.
**Receives also Certificate in Commerce and Industry.
***Receives also Certificate in Journalism.

BACHELOR OF SCIENCE

Ralph Edward Chase
Abraham Charles Greenhouse
Henry Lee Johnson
William Blaine Judy
Lisby Lucius Wade

BACHELOR OF MUSIC IN PIANO

Jennie Sophia Erickson

BACHELOR OF MUSIC IN VOICE

Chester Reade Bridgewater
Lucile Snider

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Roy Clyde Mitchell

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Jim Boysden Bennett
Ray Flood
Oscar Lee Welch
Joseph Dent Watson

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Homer Livergood
Robert Wilcox Stinson

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Joseph Cowan Gordon

BACHELOR OF LAWS

George Wallace Allen
Hill Anglea
Wiley Boss Beasley
Roy Eugene Bledsoe
William Corporon
William James Crowe
Paul Gladstone Darrough
Denver Norton Davison
Robert North Dunn
Troy Washington Griffin
John Thomas Harley
Ernest H. Hendon
Emmett Allen Henley
Frank George Howe
Arthur Emerson Montgomery
Robert Moore Parkhurst
Mrs. Musetta Markland Pearl
Arthur Sidney Roberts
Oliver Grady Rollins
Howard Speakman
Alfred Stevenson
Lemuel Hensley Tittle
John Philip Toberman
Thomas Carnes Waldrep
Homa Wood

DOCTOR OF MEDICINE

Henry Grady Adams
Kirk Bentley Barb
Samuel Jackson Bradfield
James Alonzo Campbell
Chester Oliver Davison
John L. Dorough
Henry Samuel Drehrer
James Jackson Gable
Elmer Franklin Garlington
Robert Berry Gibson
Stephen Harry Graham
Charles Elmer Haynes
Ester Lee Jones
Chesley Marion Martin
William Allen Martin
Ralph Page Mavity
Archie Bernice McConnell
Charles Leslie Piper
Willis Miley Rivers
Willis Kelly West

REGISTERED NURSE

Lulu Grace Mitchell
Nora Rice
Alta Whitwell

BACHELOR OF SCIENCE IN PHARMACY

Ana Pickard

PHARMACEUTICAL CHEMIST

Claude Edwin Aikman
Flavius George Brown
Ross Anson Clare
William Walter Eischeid
Thomas DeWitt Glass
William Early Parks
Varney Preskitt
Hubert Strahan
Effie Edward Weis

MASTER OF ARTS

Fritz Aurin
Fowler Dell Brooks
Ruth Anna Gifford
Carl Gaines Harwood
James Julian Hill
William Tecumseh Leach
Lewis Reavley Morris
Emmett Ward Patterson
Homa Wood
Okla Wood

SUMMER CONVOCATION, AUGUST 6, 1915

BACHELOR OF ARTS

Clark, William Lynn
Conner, Cecil Lafayette
Cowan, Edgar
Davis, Edward
*Dellis, Dora Dean
*Edwards, Harold Seaburn
Hirschi, Barbara Elma
Huffman, Sherman Albert
*Johnson, Hazel Meredith
McMahon, Eugene Davis
Mitchell, John Blake
*Morris, Ruth Simpson
*Swatek, Clara Elizabeth
Wilson, Ethel

BACHELOR OF SCIENCE IN MEDICINE

DeMand, Francis Asbury

BACHELOR OF SCIENCE IN PHARMACY

Hull, Lee

BACHELOR OF MUSIC IN PIANO

Parks, Ruth Ann

PHARMACEUTICAL CHEMIST

Walker, William Archibald

MASTER OF ARTS

Castleberry, Elisha Marvin
Elder, Lulu Emma
Snider, Lafayette Benjamin

UNIVERSITY TEACHER'S LIFE CERTIFICATE

To those above marked *. Also to

*Geyer, Edmond Bruce, '15
Haines, Sarah Deborah, '13
Leeper, Olive Grace, '11

ROLL OF STUDENTS, 1915-16

EXPLANATION: Letters and figures after a name indicate which school or schools the student enrolled in, and the amount of credit earned. A—Arts and Sciences; E—Engineering; F—Fine Arts; G—Graduate; L—Law; M—Medicine; N—Training School for Nurses; P—Pharmacy; X—Extension; C—Correspondence.

A small letter "u" after the name of the school indicates that the student is unclassified, that is, is doing special work or is deficient in entrance credits.

The figures after the name of the school indicate the number of hours credit earned in that school up to the beginning of the second semester. Students enrolled in more than one school do not have, in most cases, the sum of the various credits shown, owing to the fact that many courses count for credit in two or more schools, and are thus counted twice.

The letters and figures in parentheses indicate in which sessions the student was enrolled; i. e., 1—first semester; 2—second semester, s—summer session. The letter "n" indicates that the student enrolled for the first time in the university in the session immediately following the "n."

The third and fourth-year medical students are marked "3rd" and "4th."

Abbott, Charles George. A (n1,2) ..... Norman
Abbott, Cora Bell. A u (ns1,2) ..... Norman
Abney, Louis D. L 58 (1,2) ..... Stratford
Absher, William Floyd. A 74 (1,2) ..... Norman
Acree, Bessie Louise. A 77 (s1,2); F 22 (1,2) ..... Norman
Acree, Maude. A 33 (s,1,2) ..... Norman
Adams, Ethel N. L 14 (n1,2) ..... Bartlesville
Adams, James Elston. M 3rd (1,2) ..... Chandler
Adriance, Theodore D. L 42 (1,2) ..... Tonkawa
Aikman, Claude Edward. P 67 (1,2) ..... Jenks
Aikman, Grace. A (n1) ..... Jenks
Albright, Earle Clarence. X (n1) ..... Oklahoma City
Alden, Yetta. G 7 (s) ..... Norman
Alcott, Arthur. A 30 (1,2) ..... Sulphur
Alder, Evarene. F u (n 1,2) ..... Norman
Alexander, Mrs. Alice Buckley. A 118 (1,2) ..... Norman
Alexander, Emma Frances. F 70 Voice 44 Piano 25 (s,1,2) ..... Norman
Alexander, Everett Tweed. A 13 (n1,2) ..... Enid
Alexander, Frank McLain. A u (1,2) ..... Norman
Alexander, Ione Ruth. A u (1,2) ..... Norman
Alexander, Virgil Zay. A 32 (1) ..... Norman
Allan, Janet. A 25 (ns,1,2) ..... Norman
Allen, Archie S. A 39 (1,2) ..... Marlow
Allen, Harvey Lemuel. G 8 (s) ..... Tecumseh
Allen, Hattie. F 17 (n1,2) ..... Pawhuska
Allen, Henry. A 43 (1) ..... Verden
Allen, Roy. E 18 (1) ..... Geary

Allen, Virginia. A 50 (n2) .....Duncan
Allison, Maud. C (n2) .....Oklahoma City
Allison, Una. X (n1) .....Oklahoma City
Ambrister, Harry. A 33 (1,2) .....Norman
Ambrister, Roy A 91 (1,2) .....Norman
Ames, Ben Allen. A 106 (1,2); L 13 (1,2) .....Oklahoma City
Amis, Margaret Ethel. A 111 (1,2) .....Ramona
Anderson, Anna Mae. A 49 (1,2) .....Ardmore
Anderson, Edward Burke. L 22 (1,2) .....Quinlan
Anderson, George. A 67 (s); M 48 (1,2) .....Ardmore
Anderson, Helen Rebecca. A 58 (s,2) .....Pryor
Anderson, Eva Marie. A u (1) .....Norman
Andreskowski, Wenceslaus Theodore. M 21 (n1,2) .....Buffalo, N. Y.
Andrews, Jennie Patti. F u (1,2); A u (s,2) ..... Port Townsend, Wash.
Andrews, Sylvan H. A 2 (n1,2) .....Byars
Andrews, William Earl. A 9 (n1,2) .....McAlester
Anthony, Shaw. A 29 (1,2) .....Marlow
Antrim, James Windsor. A (17 (n1) .....Manitou
Archdeacon, Margaret. A 53 (1,2) .....Oklahoma City
Archer, Mamie. A u (ns) .....Verden
Armstrong, Clay Wood. A 14 (n1,2) .....Idabel
Armstrong, James Miller. A 17 (n1,2) .....Anadarko
Armstrong, William Judson. L 70 (1,2) .....Norman
Armstrong, Mrs. William Judson. A 17 (2) .....Norman
Arnold, Ben C. A u (ns) .....Neward, Ark.
Arnold, Mabel. A 111 (s,1,2) .....Clinton
Arthur, Margaret Genevieve. X (n1) .....Oklahoma City
Arthur, Patti Joy. F u (1,2) .....Tulsa
Ash, Allie Mae. A 17 (n1,2) .....Frederick
Ashby, George. C (n2) ..... Vinita
Atkisson, Louise. F u (n2) .....Norman
Atkisson, Leola. F u (n2) .....Norman
Baier, Emma. A u (ns) .....Edmond
Bailey, Floyd. A 9 (1) .....Altus
Baines, Roy Dixie. A 116 (1,2) .....Hennessey
Baines, Sue. A (n1) .....Hennessey
Baird, Phil P. A 48 (1,2) .....Oklahoma City
Baker, Benjamin Howard. P u (1,2) .....Norman
Baker, Britton R. E 15 (n1,2) .....Watonga
Baker, Eda Mary. A 107 Piano 8 (s,1,2) .....Opalos, Kansas
Baker, Jane Clara. N (n1,2) .....Okmulgee
Baker, Leon. C (n2) .....Mulhall
Baker, Locke. A 6 (ns) .....Watonga
Baker, Minnie. F u (n2) .....Granite
Balcerkiewicz, Frank Adelbert S. L 2 (n1,2) .....Billings
Baldwin, Mary Bernice. A 17 (n1,2) .....Anadarko
Baldwin, Myrtie Grace. A 15 Piano 4 (n1,2) .....Anadarko
Ball, James H. Jr. A 50 Voice 5 (1,2) .....Tulsa
Ballard, Russell Ward. X (n1) .....Oklahoma City
Ballew, Frances Augusta. A 10 (n1,2) .....Norman
Ballinger, Harry Carlyle. A 67 (1,2) .....Anadarko
Ballinger, Maurice Guild. A u (n1,2).....Norman
Balyeat, Frank Allen. G 12 (s,1).....Hobart

Balyeat, Gladys Glee. F 57 Piano 56 (1,2) .....Norman
Balyeat, Ray Morton. M 69 (1,2) .....Norman
Balyeat, Roy H. E 74 (1,2) .....Norman
Bancroft, Earbee M. L (n2) .....Oklahoma City
Barber, Evon M., Jr. A 107 (ns,1,2) .....Tulsa
Barbour, Elzaida B. A 20 Piano 4 (ns,1,2) .....Norman
Barbour, Marion Alice. G 6 (ns) .....Grainola
Barclay, Cora. A u (ns) .....Tonkawa
Barker, George L. E 16 (n1,2) .....Tecumseh
Barnes, Gladys A. A 80 (ns) .....Coyle
Barnes, Jesse Lee. A 17 (n1) .....Chickasha
Barnett, Beryl. A 17 Piano 16 Voice 8 (n1,2) .....Oklahoma City
Barr, Katherine Abernathy. A 112 (1,2) .....Chickasha
Barrett, Hannibal H. M (n1) .....(Unknown)
Barrett, Jones Harris. L (n1) .....Ryan
Barry, John William. L 70 (1,2) .....Cherokee
Barry, Nina Eloise. N (n1,2) .....Fletcher
Barry, Rose Mary. A 9 (n1,2) .....Cherokee
Bartelsmeyer, Alvin V. P 16 (n1,2) .....Mount Vernon, Mo.
Bartleson, Augustus Chapman. A 9 (n1,2) .....Muskogee
Barton, John Page. A 52 (s,1) .....Perry
Barton, Paul David. A (n2) .....Marionville, Mo.
Basham, Alan Bryan. A (n2) .....Shawnee
Bass, Harry A. A 48 (n1,2) .....Enid
Bates, Clarence Edgar. P 85 (1,2) .....Norman
Bates, Rebecca. F u (n1,2) .....Norman
Battles, Heber P. A 88 (1,2).....Muldrow
Baugh, Sallie Huffaker. A u (n2) .....Houston, Texas
Baughman, Iris Murl. A 74 (1,2) .....Oklahoma City
Baughman, W. M. C (n2) ..... Weatherford
Baxter, John Hugh. E 16 (n1,2) .....Bartlesville
Bayless, Bourke Hamilton. A 117 (1,2); Law 15 (1,2) .....Claremore
Beaird, Chester Clarence. P (n1,2) .....Norman
Beall, Arthur. A 17 (n1,2) .....Cushing
Beall, Roscoe. A (n1) .....Cushing
Beard, Robert Lee. A 76 (1,2) .....Ponca City
Beattie, Hazel. A 43 (1,2) .....Oklahoma City
Beattie, Lawrence Edgar. A 80 (n1,2) .....Alva
Beaubien. Laura. A 51 (s,1); N (2) .....Nowata
Beauchamp, Hala. A u (ns) .....Anadarko
Beavers, Nellie. F u (n1) .....Norman
Beeson, Ulrich Rische. A 21 (n1,2) .....Rush Springs
Behne, Joe C. A 40 (n1,2) .....Mountain View
Behne, Tom D. A 44 (n1,2) .....Mountain View
Bell, Charles Curry. A 119 (1,2); M 48 (1,2) .....Tonkawa
Bell, Dorothy Vaughn. F u (ns) .....Norman
Bell, Fannie Inez. A u (n1,2) .....Muskogee
Bell, Olin Grogan. A 6 (n1,2) .....Pocasset
Bellman, Alta Elnora. A 10 (s,1,2) .....Tonkawa
Belt, Loretta Frances. A 17 (n1,2) .....Temple
Belt, Joseph Samuel. L 14 (n1,2) .....Temple
Bender, Jessie Fremont. C (1) .....Nowata
Benke, Emma. A u (ns) .....Perry

Bennett, Clayton James. A 46 (n1,2); M 16 (1,2) .....Norman
Bennett, Hernando G. A 82 (s,1) .....Norman
Berger, Walter. A 74 (1) .....Wynnewood
Berlin, Herbert Augustus. G 8 (s) .....Hugo
Bernier, Dennie Otis. F u (2) .....Norman
Bernstein, Samuel. M 4th (1,2) .....Oklahoma City
Berrigan, Allegra. A 104 (s) .....Waukomis
Berrigan, William Jack. A 17 (1,2) .....Norman
Berrigan, Ruth. A 50 (s,1,2) .....Norman
Berry, Elida. F 30 Piano 24 Voice 8 (1,2) .....Pawnee
Berry, George Lester. A 17 (n1,2) .....Pond Creek
Berry, Helen Irene. F u (n1,2) .....Norman
Berry, Lee Marie. A 25 (s,1,2) .....Norman
Berry, Leo Alonzo. M 4th (1,2) .....Salitpa, Ala.
Berry, Raymond C. L 12 (1) .....Norman
Berry, Walter. F u (ns) .....Norman
Bible, Gola Hannah. G 30 (1) .....Norman
Bible, Ruby. A 37 (1,2) .....Norman
Biggers, Helen Louise. A 76 (1,2) .....Norman
Biggers, Jesse D. E 52 (1,2) .....Norman
Bigler, Florence. F u (n1,2) .....Norman
Billingsley, Estelle. A 17 (n1,2) .....Arapaho
Bills, Mrs. Alice. F u (1,2) .....Norman
Binkley, James Garfield. M 3rd (1,2) .....Oklahoma City
Bircher, Elizabeth. A u (ns) .....Ringwood
Bird, Jack Florer. A 74 (1,2) .....Pawhuska
Bivens, James Andrew. A 70 (s,1,2); M 46 (s,1,2) .....Ardmore
Black, Chauncey H. A 25 (1,2) .....Norman
Black, Early Hill. A 96 (s,1,2) .....Norman
Black, Ora A. A 16 (s,2) .....Camargo
Black, Owen. L 14 (1,2) .....Lawton
Black, Sophia Ellen. F u (n1,2) .....Marietta
Blackburn, Byron. X (n1) .....Oklahoma City
Blackert, Franz E. E 15 (s,1,2) .....Norman
Blackert, Helen Ione. A 121 Piano 32 (s,2) .....Norman
Blackert, Kathryn. A 33 (s,1,2) .....Norman
Blackman, George Cecil. E (n1) .....Weleetka
Blaine, Thomas R. A 44 (1,2) .....Fletcher
Blair, Florence. N (n1,2) .....Osage
Blair, John Vance. A 17 (n1,2) .....Osage City
Blanchard, William Grant. A 103 (1) .....Purcell
Blanton, Dora. A u (ns) .....El Reno
Blanton, Will. A 49 (1,2) .....Altus
Bloom, Nathan N. M 4th (1,2) .....Oklahoma City
Bloomer, Emerson Thomas. L 12 (n1,2) .....Seiling
Board, Guy R. A 23 (1,2) .....Okemah
Boatman, Andrew Nimrod. L 70 (1,2) .....Oklahoma City
Bobo, Charles Sidney. P 12 (n1,2) .....Norman
Bobo, Olga. F 11 Piano 8 (1,2) .....Norman
Bode, Theodore Joseph. E 2 (n1,2) .....Norman
Bohrer, Claude Ray. E 84 (1,2) .....Norman
Bohrer, Lottie. G 9 (1) .....Norman
Bolyard, Russel. A u (ns) .....Lindsay

Bond, George. F u (2) .....Purcell
Bond, L. Alva. C (n2) .....Mangum
Bond, Viola. A u (ns) .....Edmond
Bonham, Clark. P 10 (n1,2) .....Rocky
Bonham, Earl. A 81 (1,2) .....Altus
Bourke, Arthur M. X (n1) .....Oklahoma City
Bowden, Katherine. F u (n1,2) .....Purcell
Bowden, Mary Ruth. A 60 (n2) .....Holdenville
Bowen, James P. A 56 (1,2) .....Temple
Bowles, Arthur Garfield. A 104 (s,1,2) .....Ames
Bowles, Grace Adele. A u (ns) .....Wanette
Bowles, Mrs. Irena. F u (n1,2) .....Norman
Bowling, Hazel Marguerite. A u (s) .....Norman
Boyce, Anna E. A 50 (1,2) .....Carmen
Boyce, Bessie. A 36 (1,2) .....Carmen
Boyce, Robert Marion. A 38 (1,2) .....Carmen
Boyd, Elizabeth Virginia. A 76 (1,2) .....Oklahoma City
Boyd, Thomas Madison. M 3rd (1,2) .....Norman
Boydston, Manuel Perry. A (n1) .....Sallisaw
Boylan, Ebert Elwynn. A 85 (1,2) .....Shawnee
Boylan, Elaine. A 36 (2) .....Shawnee
Boyle, Phil. A u (1,2) .....San Benito, Texas
Bradley, Edwina Theresa. A 15 (n1,2) .....McAlester
Bradley, Harold Clayton. M 3rd (1,2) .....Norman
Bradley, Marvin Clifton. A 17 (n1,2) .....Sterling
Brainard, Majorie. A 49 (1,2) .....Oklahoma City
Brake, Charles Arthur. M 3rd (1,2) .....Geary
Brand, Mrs. Anna. A u (ns) .....Wakita
Braucht, Orville Smith. M 17 (1,2) .....Newkirk
Brauer, Hannah Emma. A 61 (s) .....Norman
Breeding, Corinne. A 47 (1) .....Oklahoma City
Brengle, Vivian. F 11 Piano 40 Voice 16 (n1,2) .....Perry
Bretch, Ruth Winifred. A 17 (n1,2) .....Hobart
Brett, John A. F u (ns,1,2) .....Norman
Brett, Rebecca Ward. F u (n2) .....Norman
Brett, R. H. A 21 (ns,1,2) .....Norman
Brewer, Otto Adolph. A 93 (1,2) .....Norman
Brice, William Orville. A u (ns) .....Shreveport, La.
Bridges, John William. C (n1) .....Hollis
Bridgewater, George E. P (n1) .....Norman
Briegel, Rosetta Angeline. G 28 (s,1,2) .....Norman
Briggs, Gladys. F 11 Piano 4 (n1,2) .....Granite
Briggs, Palmer. A 9 (n1,2) .....Granite
Briggs, Roy. A u (1,2) .....Oklahoma City
Brill, James Abram. F u (1,2) .....Oklahoma City
Brillhart, Norman Wright. A 65 (1,2) .....Norman
Briscoe, Albert. A 25 (1,2) .....Hollis
Bristow, Florence. A 76 (s) .....Pryor
Britt, Reland. F u (n1) .....Norman
Brittain, Miss Lee. A u (ns,1) .....Norman
Broach, Frances. F 33 Piano 24 Voice 8 (1,2) .....Tulsa
Broadus, Roberta Ford. F u (ns) .....Owenton, Ky.
Bronaugh, Zue Mac. F 32 Piano 24 (1,2); A 33 (1,2).....Boswell

Brooks, Dorothy. A u (s); F u (1,2) .....Norman
Brooks, Florence Eddy. A 86 (1,2) .....Chickasha
Brooks, Helen Marcia. G (s,1) .....Norman
Brooks, Ralph J. A 99 (ns,1,2) .....Cherokee
Brown, Adelbert. L 40 (1,2) .....Oklahoma City
Brown, Arthur Merton. E 117 (1,2) .....Comanche
Brown, Berna. A 1 (1) .....Madill
Brown, Charles Leonard. A u (n1,2) .....Geary
Brown, Dora. A u (2) .....Norman
Brown, Earl Abner. L 13 (n1,2) .....Marsden
Brown, Edatha. A 50 (1,2) .....Muskogee
Brown, Eugenia Lillian. A u (s) .....Norman
Brown, Freda. A 51 (1,2) .....Dewey
Brown, Harry James. G 4 (s) .....Anadarko
Brown, Harry Raymond. P u (s,1,2) .....Norman
Brown, Howard Elmer. X (n1) .....Oklahoma City
Brown, J. H. A u (ns) .....Butler
Brown, John Damsell. A 81 (1,2) .....Anadarko
Brown, Josephine. A u (s,2) .....Norman
Brown, Leon Hart L 70 (1,2) .....Mangum
Brown, Nauvie. A (n2) .....Norman
Brown, Vincil Earl A (n1) .....Norman
Brown, Youra Spence. M 40 (s) .....Brown
Browne, Howard Storm. M 53 (1,2) .....Norman
Brundage, Carl Langley. P 47 (1,2) .....Thomas
Brunskill, Don F u (ns); A u (ns) .....Elgin
Bryan, Noble. A 46 (1,2) .....Vian
Bryant, Bernice Marie. A 79 (s) .....Edmond
Buchanan, Frances. F 8 Piano 4 Violin 38 (s,1,2) .....Norman
Budd, Lois. A 8 (ns) .....Shawnee
Bump, Marie. A 82 (1,2) .....Oklahoma City
Bunch, Sellers Norwood. A 12 (n1,2) .....Comanche
Burch, Ruth Erskine. A 32 (2) .....Norman
Burke, Agatha. F u (s,1,2) .....Norman
Burke, Drayton Duckett. P 10 (n1,2) .....Wetumka
Burkett, Mrs. Cora Hall. A u (ns) .....Lexington
Burnett, Fay. A u (ns) .....Newkirk
Burns, Frances. A u (ns) .....Wilburton
Burress, Alice Margaret. F 10 Piano 24 Voice 32 (n1,2) .....Tonkawa
Burress, Walter March. A 85 (1) .....Ponca City
Burrough, Horace III. A u (n1,2) .....Norman
Burrus, Beatrice. A 86 (s,1,2) .....Norman
Burrus, Mary G. A u (n2) .....Norman
Burton, John F. A 49 (1,2) .....Lawton
Burton, Samuel David. A 81 (s) .....Erick
Busby, William. E 49 (1,2) .....McAlester
Buthod, Charles Paul. A 112 1-3 (1,2) .....Norman
Buthod, Mrs. Charles Paul. A u (n1) .....Norman
Butler, Anna May. A 82 Piano 48 (s,1,2) .....Norman
Butler, Ella K. A u (ns) .....Oklahoma City
Butler, Helen O'doherty. A u (n2) .....Norman
Butler, Maurine. F 19 Piano 36 (s,1); A 27 (1) .....Tulsa
Butler, Melton Clifton. A 71 (s,1) .....Mangum

Buttram, William A. C (1) .....Wilburton
Buxton, Merwin T. E 29 (s,1,2) .....Oklahoma City
Buzard, Grace Myrtle. A 62 (ns) .....Waukomis
Bynum, Willis. A 68 (1,2) .....Ardmore
Byrne, William Eugene. E 126 (1,2) .....Fort Sill
Cady, Helen. F 2 Voice 13 Piano 12 (1,2) .....Drumright
Cahall, Gretta Mae. A 8 (ns,1) .....Norman
Cahall, Leah. A u (s) .....Norman
Caldwell, Beulah. A u (n1,2) .....Wheatland
Caldwell, Hazlitt Bond. E 90 (1,2) .....Shawnee
Callaway, Vivienne. A 56 (s,1,2) .....Pauls Valley
Callen, Burt. A 17 (n1,2) .....Cordell
Callen, Claude Alva. L 14 (n1,2) .....Snyder
Callary, Ida Hayman. L 10; A 1 (s) .....Wetumka
Callin, Luella B. A (s) .....Guthrie
Cameron, Ima Jean. F 7 Piano 19 (n1,2) .....Claremore
Camp, Hubert Lionell. A 2 (n1,2) .....Lone Wolf
Campbell, Bernice K. A 81 (ns); F 40 (ns); Voice 4 (ns) .....Waukomis
Campbell, Carroll George. A u (n1) .....Oklahoma City
Campbell, James R. G 26 (s,1) .....Arapaho
Campbell, John McKoy. A 17 (n1,2) .....Oklahoma City
Campbell, Paul N. A 6 (ns) .....Hartshorne
Campbell, Willard Hastings. A 62 (1,2) .....Oklahoma City
Canode, Franklin Edison. X (n1) .....Sugden
Caples, Altha. A 17 (n1,2) .....Laverne
Capshaw, Beryl. F u (n1) .....Norman
Capshaw, Elmer Alex. L 18 (1,2 .....Norman
Capshaw, Naomi May. A 39 Voice 1 Piano 24 (s,1,2) .....Norman
Carder, Roy Leon. A 17 (n1,2) .....Eldorado
Carey, Tom F. A u (2) .....Norman
Carl, Fred. A 49 (1,2) .....Lawton
Carleton, L. H. M 3rd (1,2) .....Oklahoma City
Carney, John Bryan. A (n1) .....Oklahoma City
Carpenter, Murel Edward. E 116 (1,2) .....Collinsville
Carper, Walter Stephen. A 116 (s,1,2) .....Cleburne, Texas
Carr, William Austin. A u (1,2); M u (1,2) .....Mangum
Carroll, Hugh Allen. A 40 (s) .....Lawton
Carter, Emery Ward. A 51 (1,2) .....Pryor
Carter, Ray Irving. A u (n2) .....Norman
Cartwright, Wilburn. L u (n1,2) .....Clarita
Cary, John I. A 17 (n1,2) .....Okmulgee
Castile, Andrew Robert. A 96 (s,1,2) .....Lockridge, Iowa
Castleberry, E. Marvin. G 30 (s) .....Hollis
Castles, Fannie Belle. F u (n1,2) .....Blair
Castles, Mary Jane. A 17 (n1,2) .....Blair
Caves, Fred. E (n1) .....Altus
Chally, Mrs. A. A. F u (ns) .....Minco
Chamberlin, Kathryn. A u (ns) .....Vinita
Chaney, Margaret Rebecca. A u (ns) .....Craig
Chase, Ralph Edward. M 3rd (1,2) .....Wynnewood
Chastain, Colwell. A 21 (ns,1,2) .....Chickasha
Chastain, Rosa. F u (n1) .....Chickasha
Chatterjee, Surendra N. A u (n1,2); M u (n1,2) .....Calcutta, India

Cherry, Claude Wallon. A 17 (n1,2) .....El Reno
Childers, S. W. C (n2) .....Walters
Chitwood, Walter Newton. L 52 (1,2) .....Norman
Christensen, Lillian Anne. X (n1) .....Oklahoma City
Christian, Colonel. A 22 (1,2) .....Manitou
Christian, Roscoe Loran. A 51 (1,2) .....Snyder
Chumley, Channer Polk. M 4th (1,2) .....Collinsville, Ala.
Clanton, Allie A. P u (1,2) .....Norman
Clark, Adra. F u (1) .....Norman
Clark, Beatrice Charlotte. F 15 Voice 3 (n1,2) .....Oklahoma City
Clark, Ben S. A u (ns) .....Wakita
Clark, Elizabeth Hallie. A 74 (1) .....Cherokee
Clark, Leota Ben. F u (ns) .....Wakita
Clark, Lucy Jane. A 50 (1,2) .....Chelsea
Clark, Olpha. E 14 (n1,2) .....Hennessey
Clark, Randall. E 117 (1,2) .....Shawnee
Clark, St. Clair. E 16 (n1,2) .....Tecumseh
Clark, Mrs. Tena. F u (ns) .....Wakita
Clark, Will M. C (n2) .....Pawhuska
Clarke, Carl William. A 76 (2) .....Weleetka
Clay, Maston Henry. P u (n1,2) .....Twitty, Texas
Clements, Bessie Alberta. F u (2) .....Norman
Clements, Richard J. A 50 (1,2) .....Foss
Clifton, DeEtte Ferne. A 16 (n1,2) .....Norman
Clifton, Eva M. G (2) .....Norman
Clifton, Leonard LeRoy. A 108 (1,2); M 5; P 5 .....Norman
Clifton, Roland Leroy. A 68 (s) .....Shattuck
Clifton, Mrs. Ruby Blubaugh. F 69 (s,1,2) .....Norman
Cline, John Tilghman. G 12 (1,2) .....Atoka
Cline, Victor. L 15 (1) .....Atoka
Cline, William Henry. A 17 (n1,2) .....Newkirk
Clinkscales, Albert Sidney. A 82 (1,2) .....Vinita
Clouse, Oles. A 47 (1) .....Shawnee
Cloyd, Richard Haynes. A 65 (ns,2) .....Red Boiling Springs, Tenn
Clymer, Ralph. A u (n1) .....Oklahoma City
Cochran, Roy L. M 17 (1,2) .....Aylesworth
Cocke, William Howell. E 19 (n1,2) .....Mangum
Cockrell, Alfred Mordica. A 99 (s) .....Neosho, Mo.
Coffman, Carrie Will. F 35 Piano 40 (1,2) .....Holdenville
Coil, Josephine. A u (n1,2) .....Oklahoma City
Cole, Jerome. P 43 (1,2) .....Edgewood, Texas
Cole, Roger. A (n1) .....McAlester
Coleman, Margaret Petraya. A 80 (n1,2) .....Chickasha
Collier, Trannie Lamar. A 63 (s,2) .....Durant
Collins, Charles Dana. L 5 (n1,2) .....Okmulgee
Collins, Harvey Thomas. A 110 (2) .....Pawhuska
Collins, Merriam. C (n1,2) .....Tonkawa
Combs, Eva J. X (n1) .....Oklahoma City
Compton, Roy. L 26 (1,2) .....Frederick
Conlan, Lottie. A 50 (1,2) .....Oklahoma City
Conneway, Ruby Rahe. F 10 Piano 16 Voice 8 (n1,2) .....Guthrie
Conner, Cecil Lafayette. A 125 (s) .....Davis
Connor, Mary Alberta. F 12 Piano 8 (n1,2) .....Purcell

Conrad, Jesse Benton. A 70 (ns) .....Custer
Conrad, Ross Onley. A 17 (n1,2) .....Rankin
Conwill, Harry Cook. A 14 (n1,2) .....Optima
Cook, Artie Earl. E u (n1) .....Hobart
Cook, Mary Speed. A 8 (ns) .....Muskogee
Cooley, Ben H. A 10 (n1,2) .....Norman
Cooley, Blanche Marshall. F 6 (n1,2) .....Norman
Cooley, William C. P u (n1) .....Snyder
Cooper, Beulah B. C. N (n1,2) .....Bristow
Copper, Lora Bell. C (n1) .....Bliss
Copeland, Fayette, Jr. A 44 Piano 2 (s,1,2) .....Chickasha
Cordell, Fred W. A 8 (n1,2). .....Holdenville
Cordell, John William. A 44 (1,2) .....Guthrie
Corkill, William Edward. A 107 (s,1,2) .....Braman
Corn, Margery Bernice. F u (n1,2) .....Norman
Cornelius, Bessie Irene. A 20 (s,1,2) .....Norman
Cornelius, Emmett DeWitt. G 16 (s,1) .....Norman
Cornelius, Jesse P. L u (n1) .....Norman
Cornish, John Harden. A u (ns) .....Cornish
Coryell, Cornelia C. C (n1,2) .....Chickasha
Cott, Zula. A 60 Piano 4 (ns) .....Okmulgee
Cotten, Mittie Josephine. A u (n1) .....(Unknown)
Cotton, Cecil W. A 75 (1,2) .....Enid
Cotton, Earl Herbert. A u (n1,2) .....Stigler
Cotton, Maurice LaFayette. A 103 (n1,2) .....Norman
Couch, Flournoy Bradley. A 4 (n1,2) .....Tahlequah
Courtright, Esther L. A 17 (n1,2) .....Alluwee
Cousins, Miss Tom. N (s,1,2) .....Oklahoma City
Cowan, Edmund Ellis. A 81 (s) .....Chickasha
Cox, J. D. Jr. A 32 (1,2) .....Duncan
Cox, Mildred Cilice, A u (n1) .....Hydro
Cox, Nell. A 69 (ns,1,2) .....Lawton
Cox, Roy Williams. L 70 (1,2) .....Arapaho
Crabb, C. Vernon. L 42 (1,2) .....Arcadia
Crabb, Ruby Ruth. F u (n1) .....Perkins
Craddock, Mariam. A 38 Piano 24 (1,2) .....McLoud
Craine, Opal. A 8 (ns) .....Sapulpa
Craker, Paul. L 15 (1,2) .....Nowata
Cralle, Edith. F u (n2) .....Norman
Cralle, Walter Odro. G (s) .....Elizabethtown, Ky.
Cralle, Zella Mae. A 116 (s,1,2) .....Norman
Crane, John O. C (n2) .....Bartlesville
Crank, Blanche Louise. A u (ns) .....Miami
Crawford, Johnson Tallie. L 70 (1,2) .....Ada
Creager, Joe Clyde. E 53 (1,2) .....Clinton
Crenshaw, Edwardine. A 64 (ns) .....Durant
Crenshaw, Essie. A (ns) .....Hollis
Cress, Forrest Oliver. E 12 (n1) .....Crescent
Creswell, Edna, A u (s) .....Tonkawa
Crisp, George Marion. A 126 (1); G (2) .....Norman
Crisp, Leonora Mabel. A 55 (s,1,2) .....Norman
Crisp, Leslie. E 17 (n1) .....Lawton
Croan, Edith. N (s,1,2) .....Oklahoma City

Crofford, Oscar Bledsoe. A 12 (n1,2) .....Chickasha
Crook, J. O. A 98 (ns) .....Afton
Cross, Frederick Lewis. A 8 (n1,2) .....Waukomis
Cross, Vivian. F u (ns) .....Hollis
Crossman, John Clayburn. A u (s) .....Pampa, Texas
Crowder, Bonnie O. F u (1,2) .....Norman
Crownover, M. C (n2) .....Antlers
Cruce, Lorena Jane. A 120 Voice 16 Piano 44 (s,1) .....Oklahoma City
Crump, Wilkie. A 32 (2) .....Wynnewood
Cullen, Alma Ruth. A u (ns) .....Norman
Cullen, Blanche. A u (ns,2) .....Norman
Cullen, Caleb. A 109 (1) .....Norman
Cullen, John. A 124 (s,1,2); G (2) .....Norman
Cullen, Nina. A 54 (s,1,2) .....Norman
Cullen, William. A 115 (1) .....Norman
Cully, Inez. C (n1,2) .....Sapulpa
Culwell, James Bryant. A u (ns) .....Weston, Texas
Culwell, William Harrell. A u (ns) .....Warner
Cunningham, Clark Marvin. A 99 (s,1,2) .....Oklahoma City
Curtis, Georgia May. F G (s,1,2) .....Norman
Cuthbertson, Grover H. G 8 (ns) .....Pocasset
Daigh, Winnie. X (1) .....Oklahoma City
Dallas, Orlan L. E u (n1,2) .....Konawa
Dannenberg, Richard M. A 73 (n1,2) .....Tahlequah
Danner, Ronald F. E 18 (n1,2) .....Thomas
Darrah, Elizabeth. A 47 (N1,2) .....Custer City
Darrow, Willard Albert. F 6 Violin 16 Piano 8 (1,2) .....Norman
Daugherty, Leah. A 34 (s,1,2); F 34 (1,2) .....Norman
Dauner, Wilson Walter. P 9 (n1,2) .....Hennessey
Davidson, Wallace Norman. M 17 (1,2) .....Shawnee
Davis, Edward. A 125 (s) .....Pine Valley, Miss.
Davis, E. Hardin. E 41 (1,2) .....Waco, Texas
Davis, Ernest Francis. L 7 (n1,2) .....Norman
Davis, George Fred. M 4th (1,2) .....Harveyville, Kansas
Davis, Jessie. N (n1,2) .....Oklahoma City
Davis, Lawrence. E 15 (n1,2) .....Shawnee
Davison, Hazel. A 78 (1,2) .....Michigan Valley, Kansas
Dean, Carney. A 17 (n1,2) .....Carney
Dean, Dr. James Etter. X (n1) .....Oklahoma City
Dean, Mrs. James Etter. X (n1) .....Oklahoma City
Dean, Thomas J. P 16 (n1,2) .....Dustin
Deatherage, Mary Grace. A 17 (n1,2) .....Dallas, Texas
DeBarr, Helen Celestia. A 119 (s1,2) .....Norman
DeBarr, Hilda Mary. A 17 Piano 8 (n1,2) .....Norman
DeBarr, Mary Isabel. F u (s,1,2) .....Norman
Debo, Angie Elbertha. A 14 (n1,2) .....Marshall
Decker, J. Harold. A 49 Voice 4 (n1,2) .....Altus
Dee, Anna. A 17 (n1,2) .....Lincoln, Neb.
deGarmo, Gladys Marie. F u (n1,2) .....Purcell
Dellis, Annie Mae. A 9 (n1,2) .....Frederick
Dellis, Dora Dean. A 125 (s) .....Frederick
DeMand, Edna S. A 109 (1,2) .....Oklahoma City
DeMand, Francis Asbury. M 3rd (s,1,2) .....Oklahoma City

DeMand, Olivia. F 30 Voice 40 Piano 32 (n1,2) .....Oklahoma City
Deming, Leon J. C (n1,2) .....Holdenville
DeMunbun, H. C. A u (ns) .....Greenfield
Denison, Rodger. E 11 (2) .....Snyder
Denner, Ferdie W. E 48 (1,2) .....Enid
DePorte, Seymour. M 22 (1,2); A 17 (1,2) .....Warsaw, Russia
Dersch, Walter. M 3rd (1,2) .....St. Joseph, Mo.
Devore, Leland. E 65 (1,2) .....Ponca City
Diamond, Millie Merle. A (n2) .....Holdenville
Dickerson, Lawrence E. A u (ns) .....Blue Springs, Miss.
Dickey, Robert Milvin. C (n1,2) .....Durant
Dickson, Joseph Albert. A 66 (ns) .....Manitou
Dilworth, Bettie. A u (s) .....Hartshorne
Disney, Orville A. A 83 (1,2) .....Muskogee
Ditmars, Sidney, F. A 16 (n1,2) .....Walter
Ditzler, Harold Tate. A 74 (1) .....Ardmore
Ditzler, Maybelle. F u (1,2) .....Norman
Ditzler, Walter Linginfelter. L 41 (1,2) .....Ardmore
Dobry, Joe A 25 (1,2) .....Yukon
Dodd, Ernestine. A 16 (n1,2) .....Oklahoma City
Dodd, Jack. A 16 (n1,2) .....Hugo
Dodge, Kay V. A 28 (1,2) .....Nowata
Dodge, W. N., Jr. P u (2) .....Nowata
Dodson, J. Custer. L u (2) .....Waukomis
Dolph, George Longan. E 68 (1) .....Guthrie
Donaldson, John O. E 54 (1,2) .....Guthrie
Donnelly, Theresa Agnes. A 18 (s,2) .....Norman
Donovan, J. Wilmer. A 55 (1,2) .....Oklahoma City
Doolittle, Nettie Alice. A 25 (s) .....Crescent
Dossey, Miss Leo. F 13 Piano 8 (1) .....Okemah
Dougherty, George Lewis. A 87 (1,2); M 25 (1,2) .....Covington
Dougherty, Virgil Frank A 51 (1,2) .....Lindsay
Doughty, Vera Corinne. A 49 (1,2) .....Oklahoma City
Douglas, Alford James. A 43 (1,2) .....Oklahoma City
Douglass, Frank. L 59 (1,2) .....Weleetka
Downing, Dick. F u (ns) .....Norman
Downing, Dorothy. F u (ns,1) .....Norman
Downing, Oliver Willard. X (n1) .....Oklahoma City
Downing, Mrs. R. V. F u (ns) .....Norman
Dozier, Barclay Evans. A 17 (n1,2) .....Pond Creek
Drake, Inez Naomi. A u (ns) .....Quinlan
Drake, William. A u (ns) .....Ponca City
Drennan, Gladys Frances. A 48 (1,2) .....Oklahoma City
Driggers, James Robert. A 52 (1) .....Chickasha
Dudley, Francis Marion. L 70 (1,2) .....Welch
Duke, Mrs. Maye Mills. X (n1) .....Oklahoma City
DuMars, John Everett. X (n1) .....Oklahoma City
Dunakin, Genevieve. F 15 Piano 16 Voice 8 (n1,2) .....Norman
Dunbar, James M. M 17 (1,2) .....Floral, Kansas
Duncan, Edwin Burton. L 45 (1,2) .....Oklahoma City
Duncan, John. A u (ns) .....Chickasha
Dunn, Alice. A 35 (n1) .....Holdenville
Dunn, Margaret. F u (1,2) .....Poteau

Durant, William Ernest Lawrence. A 44 (n1,2) .....Durant
Durbin, Frank D. A 13 (n1,2) .....Oklahoma City
Dye, Lillie. A u (ns,1,2) .....Norman
Eades, William Oliver. P 47 (1,2) .....Piedmont
Eagleton, Eloise. G (2) .....Norman
Eagleton, Oliver. G 4 (s) .....Norman
Eagleton, William Lemuel, Jr. L 15 (1,2) .....Norman
Edgerton, Curtis Donovan. L 45 (1,2) .....Sapulpa
Edwards, Harold Seburn. A 124 (s) .....Olustee
Edwards, Mrs. Harriet. F 56 Piano 48 (s,1,2) .....Norman
Edwards, N. H. G (1,2) .....Norman
Edwards, Royden Jetson. A 53 (1,2) .....Olustee
Edwards, Warren. X (n1) .....Oklahoma City
Ehret, Kenneth Marion. E 19 (1,2) .....Oklahoma City
Eichorn, Clara. F (n2) .....Norman
Eischeid, John Theodore. C (s) .....Cordell
Eischeid, Pauline Rosa. A u (n1,2) .....Norman
Eldridge, Paul. A 11 (n2) .....Dewey
Elledge, Izma Pauline. A 82 (s,1,2) .....Norman
Elliott, Floy Valeria. A 90 (s) .....Alva
Ellis, Mitchell Overman. A 26 (s) .....Orlando
Ellison, Ruth. A 46 (1,2) .....El Reno
Elmore, Leroy. L 23 (1,2) .....Randlett
Emerson, Daniel W. A 76 2-3 (1,2) .....Spaulding
Emery, Henderson Donaldson. A 74 (n1,2) .....Norman
Emery, Julia. A 16 (2) .....Newalla
Emery, Nelson E. A 8 (n1,2) .....Devol
Emery, Waden. A u (n2) .....Devol
England, Abner Elliott. A 116 Voice 5 (1,2) .....Durant
Engle, Frank. A 17 (n1,2) .....El Reno
Engleman, Mrs. Emma. A u (n2) .....Norman
English, Leon Everette. E 18 (n1,2) .....Elgin
Ensworth, Jeannette. A u (ns) .....Ardmore
Erickson, Arthur Erick. E 72 (1,2) .....Oklahoma City
Erickson, Jennie Sophia. G 4 (s) .....Oklahoma City
Ernst, Ethel. A 114 (1,2) .....Cherokee
Erter, John. E 42 (1,2) .....Tulsa
Erwin, Vernie. A 54 (1,2) .....Wellston
Evans, Alice Brittain. G 4 (s,1) .....Norman
Evans, Logan Illk, M 4th (1,2) .....Oklahoma City
Evans, Raymond. L 15 (1,2) .....Shawnee
Evans, Roscoe. A 61 (s,1,2) .....Vinita
Fairchild, J. E. C (n2) .....Webb
Falkenbury, Donna Julia. F 66 (1,2) .....Miami
Falkenstine, Allan. L 13 (n1,2) .....Norman
Faris, Glenn Waldo. A 17 (n1,2) .....Billings
Fawks, Charles. A 17 (n1,2) .....Snyder
Felt, Wright L. E u (1,2) .....Hamilton, Texas
Fernandes, Grace. A u (s) .....Guthrie
Ferrell, Enoch Brewer. A 51 (1,2) .....Sedan, Kansas
Field, Lee Clark. E 34 (1,2) .....Pauls Valley
Fields, Jesse. M 14 (1,2) .....Dewey
Finley, James Hubert. L 36 (1,2) .....New Bloomfield, Mo.

Finnell, Robert Blackwell. P 16 (n1,2) .....Muskogee
Fischer, Pauline Eleanor. A 80 (1,2) .....Norman
Fitz, Rudolph Guilford. A 17 (n1,2) .....Norman
Fleming, Arch Isaac. A 90 (n1,2) .....Claremore
Fleming, Chester. F 14 Voice 5 (n1,2) .....Tulsa
Fleming, Elora Dorcas. A 21 (1) .....Norman
Fleming, Mrs. Zella. F 4 (n1,2) .....Claremore
Flitch, Audrey Lena. A 69 (s,1,2) .....Ponca City
Flitch, Eva Barbara. A 99 (s,1,2) .....Ponca City
Flitch, Sylvia Martha. A 98 (s,1,2) .....Ponca City
Flournoy, John Leeroy, L u (n1,2) .....Bristow
Flynn, Theresa. A u (1,2) .....Shawnee
Fooshee, Joseph Clarence. A 23 (1,2) .....Coalgate
Forbes, Charles Gerald. F u (n1,2) .....Norman
Forbes, Maude Margaret. A 23 Violin 6 Piano 4 (s,1,2) .....Norman
Foster, Edna. A u (1,2) .....Norman
Foster, Ellis Joseph. A 50 (1,2) .....Coalgate
Foster, Mabel Alice. A 29 Voice 8 (n1,2) .....Norman
Foster, Mary Kathryn. A 83 (1,2) .....Oklahoma City
Foster, Rayburn. L 68 (s,1,2) .....Helena
Fraker, E. Lester. A 36 (1,2) .....Norman
Frame, Lon. A u (n1,2) .....Oklahoma City
Francisco, Glen. M 4th (n1,2) .....Oklahoma City
Frank, Inez Viola. F u (1,2) .....Purcell
Franken, Mary Margaret. C (n1) .....Hot Springs, Ark.
Frantz, Harry P. L u (n1,2) .....Enid
Frates, Earl. A u (n2) .....Springfield, Mo.
Freeman, D'Nola. A 4 (n1,2) .....Cordell
Freeman, Elvin Delph. E 77 (1,2) .....Chandler
Freeman, Katie. A 17 (n1,2) .....Cordell
Freiburger, Walter Harold. A 17 (n1,2) .....Bartlesville
French, William Cullen. G 8 (s) .....Lawton
Fritts, Joe Anderson. A 24 (ns) .....Fort Worth, Texas
Fritts, Mrs. Mary G. A u (n1) .....Weleetka
Fritts, Thomas Albert. A 56 (s) .....Hebron, Texas
Fritts, Virginia. A u (ns) .....Hebron, Texas
Frost, Reuel Bryan. A 49 (1,2) .....Norman
Fry, William L. C (1) .....Alma
Fuesler, Carrie. X (n1) .....Oklahoma City
Fuller, John L. L 39 (1,2) .....McAlester
Funk, William Frank. A 101 (s,2) .....Alva
Fuqua, Herbert. A 42 (1,2) .....Duncan
Fuqua, Nolen J. A 67 (s,1,2) .....Duncan
Furman, Florence. A 49 (1,2) .....Oklahoma City
Furman, Henry Marshall. L 42 (1,2) .....Oklahoma City
Gabbardt, Ruby Eileen. A 39 (n1,2) .....Norman
Gadd, William H. B. X (n1) .....Oklahoma City
Gadd, Mrs. W. H. B. X (n1) .....Oklahoma City
Gahring, William Ross. P 16 (n1,2) .....Mount Vernon, Mo.
Galbreath, Leona. A 15 Piano 24 (1) .....Tulsa
Galloway, Frank. A 9 (n1,2) .....Hobart
Galloway, Jesse Edward. A 17 (n1,2) .....Hobart
Galt, Freeman. A 9 (n1,2) .....Ardmore

Gamble, Achsah Beryl. A 37 (n1,2) .....Enid
Gammill, Donald, A 17 (n1,2) .....Wetumka
Gammill, William Floyd H. A 17 (n1,2) .....Idabel
Garner, Myrtle. A u (ns) .....Lawton
Garretson, O. K. A 55 (1,2) .....Quinton
Garrett, Anna Gertrude. A 46 Piano 4 (1,2) .....Norman
Garrett, Daniel Loy. A 72 (1,2) .....Spiro
Garrett, Lester Edward. A 13 (1,2) .....Wakita
Garrett, Thomas Buffington. A 29 (1,2) .....Pryor
Garrett, Thomas Rogers. A u (1,2) .....Tonkawa
Garrett, W. L. C (n2) .....Elmwood
Garrison, Mrs. Mary. A 17 (n1,2) .....Caney, Kansas
Garrison, Sam Y. E (n1) .....Ryan
Gaskill, Ernest. A 8 (s) .....Ralston
Gastineau, Felix Thomas. M 51 (1,2) .....Weatherford
Gates, Olga. F u (n1,2) .....Norman
Gatewood, Hilda. F 36 Piano 24 (n1,2) .....Vinita
Gayman, Mark Willis. M 3rd (1,2) .....Chandler
Geer, Irma, A 8 (ns) .....Foss
Geiser, J. O. A u (ns) .....Wellston
Gelders, Jesse Francis. X (n1) .....Oklahoma City
Gelwick, Allen G. L u (n1,2) .....Bristow
Gentry, Glowrene. A 56 (1,2). .....Pond Creek
George, Eurial Vivian. A 9 (1) .....Norman
George, Fines Jefferson. L 44 (1,2) .....Sapulpa
George, Joseph Matthews. A 40 (1,2) .....Altus
Gerard, C. E. C (n2) .....Jamestown, Ohio
Geyer, Edmond Bruce. G 8 (s) .....Norman
Geyer, Forest Park. A 91 (1,2) .....Norman
Geyer, Kittie. A 48 (1,2) .....Norman
Ghering, Laura Jeanna. G 8 (s) .....Kingfisher
Giard, Ruth Aughinbaugh. F u (2) .....Norman
Gibbons, Margaret Charlotte. F u (1) .....Purcell
Gibson, Ina Elizabeth. A64 Piano 40 (n1) .....Yukon
Gibson, Malinda Blanche. F 30 Violin 44 (s,1,2); A 86 (s,1,2) .....Norman
Gidney, John Maney. L 57 (s,1,2) .....Muskogee
Gilkey, Mary Naomi. A 96 (1) .....Norman
Gilkey, Rosalie. A 90 (s,1,2) .....Norman
Gill, Martin J. X (n1) .....Oklahoma City
Gill, Mrs. Martin J. X (n1) .....Oklahoma City
Gillespie, Mrs. Georgia. A 79 (ns,2) .....Guthrie
Gilliland, Lloyd Nance. L 13 (n1,2) .....Frederick
Gimeno, Harold. F 20 Piano 66 Violin 4 (s,1,2) .....Norman
Gimeno, Margareta. A u (ns) .....Norman
Gittinger, Clement O. G 6 (s) .....Oklahoma City
Gittinger, Dorothy Ruth. F u (n1) .....Norman
Gittinger, Mrs. Frances Price. F u (1) .....Norman
Givens, Edward Bruce. A 16 (1) .....Norman
Glasscock, Lillian. N (s,1,2) .....Oklahoma City
Glidewell, Web. A 17 (n1,2) .....Helena
Gloyd, Helen. F u (2) .....Oklahoma City
Goff, Lee Burwell. A 17 (1,2) .....Oklahoma City
Gold, Helen Vera. F u (n1,2) .....Purcell

Goldner, Abraham. M 4th (1,2) .....Oklahoma City
Goode, Clarence L. A u (n1) .....Chickasha
Goode, Monroe H. X (n1) .....Oklahoma City
Goodin, Gladys Elzey. F 9 Piano 24 Voice 8 (n1,2) .....Coalgate
Gooding, Lillian. A 78 (s,2) .....Norman
Goodman, Abram Robert. M 3rd. .(1,2) .....Norman
Goodnight, Vernon. E 42 (1,2) .....Heavener
Goodrich, Margaret. A 17 (1,2) .....Norman
Goodrich, Raymond Hugh. E 7 (n1,2) .....Norman
Goodrich, Robert David. A 119 (1) .....Norman
Goodson, Robert Berton. E 14 (n1,2) .....Thomas
Gordon, Mary Amelia. A 106 (s,1,2) .....Kansas City, Mo.
Gorey, Willis H. P 16 (n1,2) .....Oneta
Gorton, Clover Gladys. A 52 (1,2) .....Norman
Goss, Beatrice. C (n2) .....Pawhuska
Gossard, Mrs. Zella Zahniser, A u (1) .....Norman
Gould, Clyde. E 13 (n1,2) .....Hennessey
Gowdy, Ivan Wesley. E 13 (n1,2) .....Chickasha
Grace, Roy. C (n2) .....Stigler
Grady, Charles William. M 52 (1,2) .....Wheatland
Graham, Ernest Robert. C (n1,2) .....Shawnee
Graham, Thomas Edward. E 73 (1,2); A 68 (1,2) .....Anadarko
Graham, William L. A (n2) .....Okemah
Gramling, Mabel Ruth. A 17 (n1,2) .....Collinsville
Graves, Rosa Dolly. F u (n1) .....Moore
Graves, Lloyd Milner. G 8 (s) .....Orlando
Gray, Nellie. A 8 Piano 8 Violin 8 (n1,2) .....Higgins, Texas
Gray, Reuben Elmer. L 10 (n1,2) .....Fairfax
Green, George LeRoy. A 79 Voice 3 (1,2) .....Keithsburg, Ill.
Green, Harold. A 12 (n1,2) .....Chandler
Green, Marquis J. P 50 (1,2) .....Helena
Green, Robert Otho. L 14 (n1,2) .....Eufaula
Green, W. E. A u (s) .....Chandler
Gregory, Parthenia. A 93 (s,1,2) .....Mangum
Grider, Ethel Gertrude. A u (s) .....Chandler
Griffin, Bennett Hill. A 65 (1,2) .....Norman
Griffin, Bryan. A (n1,2) .....Norman
Griffin, Martha Lee. F u (n1) .....Norman
Griffin, Ruby Laura. A 79 Voice 3 (s,1,2) .....Norman
Griffin, Vera Louise. F u (1) .....Norman
Griffith, Fred. A u (n2) .....Alva
Grigsby, James Edward. F u (n1) .....Norman
Grimes, Earl H. A 31 (1,2) .....Hobart
Grimes, Mark. A u (n1,2) .....Howe
Grissom, Lillie Evelyn. A 68 (s) .....Snyder
Gross, Orlando Samuel. E 11 (n1,2) .....Oklahoma City
Grove, Ethel Lucile. A 80 (1,2) .....Coalgate
Grubbs, Edwin Chester. C (n1,2) .....Broken Bow
Grube, Wesley. A 103 1-3 (1,2) .....Broken Arrow
Guild, Carl Holmes. M 55 (1,2); A 78 (s1,2) .....Topeka, Kansas
Gummow, Gladys. A 16 (n1,2) .....Blackwell
Guthrie, Herbert Noel. E 18 (n1,2) .....Norman
Guthrie, John Alexander. M 3rd. (1,2) .....Oklahoma City

Guthrie, Miriam. A 17 (n1,2) .....Norman
Gwinn, Allie May. A 51 (1,2) .....Ardmore
Haage, Arthur Edmund. A 107 (1) .....Coweta
Hadsell, Clarice Lucile. F u (n1,2) .....Norman
Hagan, Eugene. A 16 (n1,2) .....Oklahoma City
Hall, Eula. A 80 Piano 4 (s) .....Hobart
Hall, George Calhoun. A 5 (2) .....Robberson
Hall, James H. L u (s,1,2) .....Norman
Hall, Leona. A 77 Violin 4 (s) .....Hobart
Hall, M. Z. A u (ns) .....Arapaho
Halley, Harry Lee Stuart. L 42 (1,2) .....Antlers
Hamer, Lorinda Hazel. F 8 Piano 32 Voice 8 (n1,2) .....Hennessey
Hamil, Florence. A 48 (ns) .....Cleo
Hamilton, Edith Ellen. A 19 (n1,2) .....Custer
Hamilton, Florence Marguerite. G 14 (s) .....Norman
Hampton, Carmen Louise. F 30 Piano 8 (1,2) .....Rush Springs
Hancock, Alison Roy. M 17 (n1,2); A 63 .....Tallahassee, Fla.
Hancock, Neva. A (ns) .....Muskogee
Hardin, Glenn. A 21 (n2) .....Oklahoma City
Hardin, Norman J. A 14 (n1,2) .....Duncan
Harding, Cora. A u (1,2) .....Custer
Harff, John Raymond. M 46 (s,1,2) .....Atoka
Harlow, Margaret Mary. A 17 Voice 8 (n1,2) .....Norman
Harlow, Rex Francis. A 28 (1) .....Oklahoma City
Harned, William Dewey. P 16 Cornet 2 (n1,2) .....Chattanooga
Harrell, Howell. A 31 (s,1,2) .....Oklahoma City
Harrell, Lowry Houston. L 66 (1,2) .....Norman
Harrill, Tom C., Jr. A 28 (1,2) .....Wagoner
Harrington, Irma Jane. A 106 (s,1) .....Norman
Harrington, Lenore. A 73 (s) .....Oklahoma City
Harris, Arthur Santa. A 13 (n1,2) .....Tulsa
Harris, Elsie Irene. F 75 Piano 38 Voice 40 (s,1,2); A 92 (s,1,2) .....Edmond
Harris, George Gano. M 3rd (s,1,2) .....Norman
Harris, John Elgin. A u (ns) .....Lebanon, Mo.
Harris, Mrs. J. G. X (1) .....Oklahoma City
Harris, J. R. E u (n2) .....Oklahoma City
Harris, Nina Lois. A 108 (n1,2) .....Deer Creek
Harris, Marshall W. A 35 (1,2) .....Oklahoma City
Harris, Marvin Hellams. M 23 (n1,2); A 16 (n1,2) .....Oklahoma City
Harris, W. R. C (n2) .....Pryor
Harris, Yates. E u (ns,1,2) .....Soper
Harrison, Mrs. Izola Curley. A 55 (1,2); F 47 Piano 24 (1,2) .....Rosedale
Harrison, Mitchell. L 68 (1,2) .....Stigler
Harrop, John T. C (n2) .....Garfield, N. J.
Hart, Clyde E. A 72 (ns) .....Tryon, N. C.
Hartnell, Grace. A u (ns) .....Lawton
Harvey, Mack. F u (1) .....Norman
Haswell, Edith. F u (n1) .....Norman
Hatcher, Eula May. A 84 (s) .....Texola
Hatley, Olga. F 13 (n1,2) .....Van Buren, Ark.
Hatley, Oma. A 43 (n1,2) .....Van Buren, Ark.
Haviland, William. C (n2) .....Alva
Hayes, Charles Roscoe. P 56 (1) .....McLoud

Hayman, Etta. A u (ns) ..... Wetumka
Haymore, Delia Florence. A u (ns) ..... Marlow
Haynes, William Buel. F u (n1,2) ..... Noble
Heard, Grace. A u (n1,2) ..... Weleetka
Heath, Milton Mack. A 128 (s,1); G (2) ..... Blair
Heaton, Mrs. George. X (n1) ..... Oklahoma City
Heaton, Roy K. X (n1) ..... Oklahoma City
Hebard, Charles. C (n2) ..... Clinton
Hedley, Lula. A u (ns) ..... Granite
Heele, C. R. C (n2) ..... Kingfisher
Heffner, Roy E 54 (1,2) ..... Bessie
Heiman, Herbert Jacob. L 13 (n1,2) ..... Oklahoma City
Heller, Gilbert Nelson. E 90 (1,2) ..... Kiefer
Helm, Sarah. A u (ns) ..... Jericho, Texas
Helmick, John N. A 106 (s,1,2); L 15 (1,2) ..... Canton
Helms, Nola V. A u (ns,2) ..... Norman
Helms, Stokely Braxton. P 34 (1) ..... Fort Towson
Henderson, Cordie. N (n1,2) ..... Temple
Henderson, Maud. F u (n1) ..... Norman
Henderson, S. H. C (1) ..... Oakland
Hendon, Bryan. A 56 (1,2) ..... Earlsboro
Hendon, Randall Robert. A 27 (s,1); L 70 (2) ..... Tecumseh
Henley, Mrs. Hertha H. A u (n2) ..... Oklahoma City
Henley, Marvin Dumas. P 40 (1,2) ..... Bluejacket
Henricksen, Alfred. A 8 (ns) ..... Perry
Henry, Empo Virginia. A 17 (n1,2) ..... Ardmore
Hensley, Mrs. Addie E. X (n1) ..... Oklahoma City
Henson, Ollie. A 17 (n1,2) ..... Woodward
Herrin, S. C. A u (1,2) ..... Norman
Herring, Will Clarence. A 112 (1,2) ..... Caddo
Herrington, Catherine. A u (s) ..... Norman
Herrington, David John. M 3rd (1,2) ..... Norman
Herrington, Pearl. F u (s,2) ..... Norman
Herron, Alice. A 29 (ns,1,2) ..... Vinita
Hester, C. C. A u (ns) ..... Eldorado
Hickman, Cecil Rogers. A 52 (1,2) ..... Altus
Hicks, Andrew Jackson. C (1) ..... Blanchard
Hickman, John. X (n1) ..... Oklahoma City
Higgins, R. N. C (n2) ..... Cheyenne
High, Charles Leslie. A 50 (1,2) ..... Cushing
Hill, Rachel Barbara Barry. A 17 (n1,2) ..... Claremore
Hill, William Thomas. A 41 (1,2) ..... Vinita
Hilsmeyer, Gladys Marie. A 98 (s,1,2) ..... Weleetka
Hilsmeyer, Hazel. A 60 (s1,2) ..... Weleetka
Hilsmeyer, Noble Frederick. A 17 (n1,2) ..... Weleetka
Himes, Allice. G (s) ..... Norman
Hinckley, Ethel. A u (n1) ..... Watonga
Hinds, Cecil. F u (2) ..... Weleetka
Hinds, Roy C. A u (ns) ..... Beggs
Hinshaw, Raymond J. A u (n1,2) ..... Bristow
Hinshaw, Thomas Justin. L u (n1,2) ..... Shattuck
Hoar, Benjamin Jesse. A 96 (s) ..... Drummond
Hoar, Mrs. Ida Mary. A u (s) ..... Drummond

Hobbs, Nona. A u (ns) .....Doyle
Hodge, Herbert. A u (ns) .....Ranger Lake, N. M.
Hodges, Alma. A 34 (s) .....Norman
Hodges, Jo Lois. F u (1) .....Norman
Hodgson, Sam Holt. A 28 (s,1) .....Tampico, Mexico
Hodnett, Phillip. A 65 (1,2) .....Marlow
Hoffman, Ralph Austin. E 51 (1,2) .....Shawnee
Holland, Annie Blanche. A 44 (2) .....Norman
Holland, Hattie. A 107 (s,1,2) .....Chickasha
Holland, John Hawkins. A 13 (n1,2) .....Tishomingo
Holland, Loyal. E 58 (1,2) .....Chandler
Hollenbeck, Dorys. A 64 (1,2) .....West Plains, Mo.
Hollenbeck, Gladys. F 42 Violin 56 Voice 7 (1,2) .....West Plains, Mo.
Hollis, Artie. A (n2) .....Hollis
Holloway, Jessie. A 13 (n1,2) .....Marlow
Holman, Oscar Hayden. A u (n1) .....Minco
Holmberg, Mrs. Signy. F u (n1) .....Norman
Holt, Howard Judson. G (s) .....Ottawa, Kansas
Honnold, Claude Leo. A 108 (s,2) .....Thomas
Hooks, James Earl. L 5 (n1,2) .....Eldorado
Hoover, Hubert. E (1) .....Wynnewood
Hopkins, John T. C (n2) .....New Brunswick, N. J.
Horsman, W. Sam. A u (ns) .....Wynnewood
Hosey, Isaac. P 43 (1,2) .....Paden
Hosey, Orlando. P 39 (1,2) .....Paden
Hott, Oliver James. E 77 (1,2) .....Wakita
Hott, Willis Monroe. E 77 (1,2) .....Wakita
Howard, Deane. L 14 (1,2) .....Oklahoma City
Howard, Domer Lawton. A 17 (n1,2) .....Oklahoma City
Howard, Merle Quest. M 4th (1,2) .....Oklahoma City
Howarth, Myrtle Belle. F u (s,1) .....Norman
Howe, Gertrude.. A 11 (ns,1,2) .....Norman
Howe, William Henry. E u (n1,2) .....Norman
Huddleston, James H. E u (ns) .....Checotah
Hudgens, Helen Rowena. A 59 (s,1,2) .....Norman
Hudspeth, Belle. A u (s,1,2) .....Eldorado
Hufbauer, Harold Canaday. A 13 (n1,2) .....Newkirk
Huffaker, Mary. A 102 (s,2) .....Edmond
Huffman, Sherman Albert. A 134 (s) .....Wellston
Hughes, Calvin T. E 54 (1,2) .....Lone Wolf
Hughes, Thomas Milton. A 8 (n1,2) .....Elk City
Hull, Lee. P 122 (s) .....Norman
Hulwell, William H. A u (s) .....Weston, Texas
Humphrey, Chester S. A 7 (n1) .....Hastings
Humphreys, Leon Alfred. E 46 (1,2) .....Tulsa
Hunt, Jeanne. A 35 Voice 12 (s,1) .....Shawnee
Hunter, Harry Arthur. A 17 (n1,2) .....Shawnee
Huntington, Richard Lee. A 86 (1,2) .....El Reno
Hurley, Alice. A 111 (1,2) .....Tulsa
Hurst, Helen. A 16 (ns) .....Oklahoma City
Hurst, Louis Glenn. A 66 (1) .....Chandler
Huston, Henry E. M 3rd. (1,2) .....Alma
Hutchens, Hubert Lowery. L u (n1,2) .....Hobart

Hutchins, Emma Lucile. F 10 Piano 24 (n1,2) .....Davis
Hutchins, Thamazin Margaret. F 13 Piano 24 (n1,2) .....Davis
Ince, Ruth Mary. F u (n1) .....Norman
Ingham, Charles Ward. A 17 (n1,2) .....Oklahoma City
Ingram, W. A. C (n2) .....Guymon
Inniss, John A. C (n2) .....Woodward
Ivy, Harley James. A 36 (s) .....Hastings
Jackson, Carl. F u (s) .....Norman
Jackson, Frederick Armond. P 16 (n1,2) .....Cherokee
Jacobs, Hugh L. X (n1) .....Oklahoma City
Jacobs, John Clark. A 119 (1,2) .....Mangum
Jacobs, Maizie. A 10 (ns,1,2) .....Norman
James, Earl Sylvan. X (n1) .....Oklahoma City
James, Richard Vernon. E 53 (1,2) .....Oklahoma City
Jameson, John. A 17 (n1,2) .....Anadarko
Jamieson, Edith. A 60 (ns,1,2) .....Edmond
Jamison, John E. E 31 (s,1,2) .....Shawnee
Jarbeau, Alva Vance. A 50 (1,2) .....Altus
Jarbeau, Mary Ferguson. F u (n1,2) .....Altus
Jarrett, Dorothy. F 15 Piano 8 (n1,2) .....Snyder
Jastrow, Arthur William. A 16 (n1,2) .....Bartlesville
Jenkins, Clarice. A u (ns) .....George
Jennings, Kenith Blake. P 10 (n1,2) .....Wayne
Jennings, George Henry. L 64 (s,1,2) .....Kiefer
Jennings, Grace Gertrude. A 20 (1,2) .....Norman
Jennings, Jo Alma. F 20 (1,2) .....Sulphur
Jesse, Hugh. P 34 (1,2) .....Lawton
Jesse, John Louis. G 16 (s) .....Altus
John, Francis, A u (n1,2) .....Muskogee
Johnson, Arline. F u (1) .....Norman
Johnson, Claude Louie. A 76 (1,2) .....Tonkawa
Johnson, Earl. P 68 (1,2); A 64 (1,2) .....Tonkawa
Johnson, Foster Frion. E 45 (1,2) .....Mangum
Johnson, Froma A. F u (s) .....Norman
Johnson, Graham Belton. A 17 (n1,2) .....Norman
Johnson, Henry Lee. M 3rd (1,2) .....Hollis
Johnson, James Burrel. A 9 (n1,2) .....Norman
Johnson, Jed J. L u (n1,2) .....Walter
Johnson, Leona. A 51 (1,2) .....Altus
Johnson, Lucille. A 120 (1,2) .....Pawhuska
Johnson, Montford Tilford. A 82 (1,2) .....Norman
Johnson, Neil Robert. L 41 (1,2) .....Norman
Johnson, Rocla. A 23 (1,2) .....Tulsa
Johnson, Roy. F u (n1,2) .....Prague
Johnston, Carroll. A u (1,2) .....Oklahoma City
Johnston, Ross. A 17 (n1,2) .....Shawnee
Johnston, Spurgeon. P 19 (1) .....Kiefer
Jones, Benjamin George. M 3rd (1,2) .....Foss
Jones, Bernice Charity. A 35 Piano 4 (1,2) .....Norman
Jones, Clifford Ellsworth. E 15 (n1,2) .....Hugo
Jones, Dudley Harwood. E 90 (1,2) .....Shawnee
Jones, Hubert Alton. A 48 (s,1,2) .....Norman
Jones, Hugh. A (n2) .....Shawnee

Jones, Minnaletha. F 24 Piano 8 (n1,2); A 54 (n1,2) .....Norman
Jones, Murriel Vivian. F 15 Piano 32 Voice 8 (n1,2) .....Hollis
Jones, Prentiss George. P 7 (n1,2) .....Hollis
Jones, Walker B. P 19 (n1,2) .....Hollis
Jonston, Mrs. Jess B. N (n1,2) .....Louisville, Ky.
Joseph, Van Allen. A u (n1,2) .....Waukomis
Kaiser, Mrs. George Konrad. X (n1) .....Oklahoma City
Kahn, Julietta. A 45 (1,2) .....Oklahoma City
Kanatser, Joseph Elmer. A 16 (n1,2) .....Shawnee
Karcher, John Clarence. A 108 (1,2); E 123 (1,2) .....Hennessey
Kaufman, Eugenia. A 110 (s,2) .....Weatherford
Kaufman, Kenneth. A 105 (s,1,2) .....Weatherford
Keenan, Robert Bruce. A 128 (s,1); L 26 .....Tahlequah
Keeshen, Walter A. A u (n1) .....Oklahoma City
Keller, Edgar Trotter. A 42 (1,2) .....Lexington
Keller, Frank. E 17 (n1,2) .....Thomas
Keller, Orange E. E 20 (n1,2) .....Oklahoma City
Kelley, Edna B. C (n2) .....El Reno
Kelly, Hazel. F 9 Piano 2 Voice 8 (n1,2) .....Pawhuska
Kelly, Katie Celia. X (n1) .....Oklahoma City
Kelsey, Jessie. A 12 (s,2) .....Chickasha
Kennedy, John Paul. A 17 (n1,2) .....Pawhuska
Kernodle, Stratton Ellington. M 45 (1,2); A 56 (1,2) .....Skiatook
Kerr, Robert Samuel. A 77 (n1,2) .....Ada
Keys, Mott. E 8 (n1); A 31 (n1) .....Hollis
Kibler, Luther Wesley. A 123 (s,1); G (2) .....Waynesville, Ohio
Kiefer, Lewis H. L u (n1) .....Harper, Kansas
Kimbley, Russell Bryce. A 12 (n1,2) .....Okmulgee
Kinchen, Oscar Arvle. A 114 (s,1,2) .....Erick
King, Beatrice Jessie. F u (n2) .....Purcell
King, Buena. A 33 (1,2) .....Oklahoma City
King, Elizabeth Bertha. F u (n2) .....Purcell
King, Estelle Linnie. F u (n2) .....Purcell
King, William Y. A u (n1) .....Oklahoma City
Kinnaird, Donald. A 48 (1,2) .....Bristow
Kirby, Grady. G (s) .....Tulsa
Kirkland, Beulah. A u (s,1) .....Amber
Kirkpatrick, Mary. A 17 (n1,2) .....Norman
Kirchenbaum, Harry. M 4th (1,2) .....Oklahoma City
Kitchen, William A. E 9 (n1,2) .....Moore
Kitchens, Luther Wesley. A 122 (s,1,2) .....Sweetwater
Kite, William Casper. A 127 (s,1) .....Perry
Klapp, Claude Cyrus. P 13 (ns,1,2) .....Tecumseh
Klass, John Paul. A 113 (1,2); L 4 (1) .....Chelsea
Klinglesmith, Ruth Elizabeth. A 127 (s,1,2); G (2) .....Norman
Klostermyer, Louis Leon. A 49 Voice 4 (1,2) .....Perry
Knack, E. Earl. A 79 (s) .....Edmond
Kneeland, Louie Glenmore. L 13 (n1,2) .....Fort Gibson
Knight, Richard Bowie. A 9 (n1,2) .....Bokchito
Koch, Joseph Nathan. A 17 (n1,2) .....Oklahoma City
Koester, Ernest. L 15 (1,2) .....Dewey
Koester, Paul Oscar. E 54 (1,2) .....Bartlesville
Kolm, Robert Neiman. A 17 (n1,2) .....Shawnee

Kraettli, E. R. A u (n2) .....Norman
Krafft, William A. E 37 (1,2) .....Oklahoma City
Kramer, Forrest John. L 5 (1,2) .....Tulsa
Krebs, Lydia Margaret Elizabeth. A u (ns) .....Coupland, Texas
Kuper, Paul Henry. A 13 (n1,2) .....Thomas
Lail, Robert Dimpsey. L u (n2) .....Atoka
Lancaster, Florence Ethel. N (s,1,2) .....Oklahoma City
Landon, O. G. C (n2) .....Oklahoma City
Lane, Mary Effie. C (1) .....Ardmore
Lane, William E. A 108 (s) .....Alva
Langford, Cecil. A 38 (1,2) .....Norman
Langford, Dorothea. F u (ns) .....Norman
Langston, Wann. M 4th (1,2) .....Oklahoma City
Larkin, Henry Watson. A u (s) .....Cornish
Larkin, Mrs. Henry Watson. A u (ns) .....Cornish
Laskey, Glenn. A 30 (1,2) .....Oklahoma City
Lathram, Crit. E u (s,1,2) .....Lawton
Lawrence, Arthur R. A 48 (1,2) .....Lawton
Laws, Paul Leo. E 16 (n1,2) .....Tulsa
Laws, Silas Irvin. A 78 (s,2) .....Wilburton
Lawson, Lillie Elizabeth. A u (ns) .....Checotah
Lawton, Elbert Reed. L 8 (n1,2) .....Arapaho
Layton, Byron. A 59 (n2) .....Enid
Leach, Elsie. F u (s) .....Norman
Leach, Grace Martha. F u (s) .....Norman
Leach, Naomi Nina. F 30 Piano 32 Violin 22 (1,2) .....Norman
Leach, William Tecumseh. G (s) .....Norman
Leal, Mrs. Annie. X (n1) .....Oklahoma City
Leal, Mrs. Mary. X (n1) .....Oklahoma City
Leckman, Maude. X (n1) .....Oklahoma City
Ledbetter, Helen. F 11 Voice 16 Piano 16 (1,2); A 2 (1,2) .....Oklahoma City
Ledbetter, Robert. L 40 (1,2) .....Oklahoma City
Lee, Mary Grace. G 18 (1,2) .....Norman
Lee, Vivian Otto. L u (n1,2) .....Norman
Leeper, Olive Grace. G 16 (s) .....Muskogee
LeFlore, Helen. F u (n1) .....Atoka
Lehr, Albert M., Jr. X (n1) .....Oklahoma City
Lenox, Eugene H. A 71 1-3 (ns,1,2) .....Jenks
Lessart, Susan. F 5 Piano 24 (n1,2) .....Ponca City
Leverett, Edgar J. C (n2) .....Waurika
Levite, Abraham. P 47 (1,2) .....Apache
Levy, Morris B. P 23 (1) .....Norman
Lewis, Ben Parker. A 98 (ns1,2) .....Purdy, Mo.
Lewis, Jean Demcy. A u (n1) .....Meeker
Lewis, William H. L 18 (n1,2) .....Oklahoma City
Lhevine, Morris Boice. M 3rd (1,2) .....Oklahoma City
Leiber, Hugh Gray. A 41 (s,1,2) .....Oklahoma City
Lightfoot, Mary Elizabeth. X (n1) .....Oklahoma City
Ligon, Robert Bruce. L u (n1) .....Ada
Lilley, Lenna. F u (n1) .....Cushing
Limbacker, Wayne. E 24 (s) .....Pauls Valley
Lincoln, Amer W. E 19 (n1,2) .....Henryetta
Lindsay, Mrs. Dora. F u (1,2) .....Norman

Lindsay, Ruby May. F u (s) .....Norman
Lindsay, Thelma. F u (n1,2) .....Norman
Lindsey, J. Lawrence. A u (ns) .....Norman
Link, Della Celesta. A 72 (1,2) .....Oklahoma City
Lippert, Ernest Laverne. A 17 (n1,2) .....Stroud
Lilse, Courtney Achillis. P 16 (n1,2) .....Shamrock, Texas
Little, Louise C. F u (n1,2) .....Norman
Little, Pearl A. C (n2) .....Frederick
Little, Rudolph. F u (n1) .....Norman
Lively, Morris Uberta. A 64 (n2) .....Durant
Lively, William Prentiss. A 117 (1,2) .....Blackwell
Lochwood, Ernest. A u (ns) .....Ponca City
Logan, Clarence Ziegelmeier. A 96 (1,2) .....Shawnee
Logan, Clifford K. A 76 (n1,2) .....Tahlequah
Logan, David Matthew. A 103 (1,2); E 85 (1,2) .....Tahlequah
Long, Charles Walter. A u (n1) .....Wakita
Long, Jesse Henry. A 2 (n1,2) .....Spiro
Long, LeRoy D. A 16 (n1,2) .....Oklahoma City
Long, Ruth Esther. A 17 (n1,2) .....Hobart
Loofbourrow, Harold Wade. A 17 (n1,2) .....Beaver City
Lookabaugh, Leonard Lytton. A 14 (1,2) .....Norman
Loomis, Harvey Ezra. A 120 (2) .....Norman
Looney, Joseph Claude. A 14 (n1,2) .....Konawa
Lorenz, Herman Peter. A 8 (n1,2) .....Cordell
Loucks, Clifford R. L 40 (1,2) .....Walters
Lowe, Ruth. A 4 (1,2) .....Norman
Lowe, Zearl Eaton. P 26 (1) .....Mangum
Lowry, Richard. M 4th (1,2) .....Oklahoma City
Lowry, Thomas. M 4th. (1,2) .....Oklahoma City
Lowther, Irma. A 42 (1,2) .....Norman
Lunsford, William Frederick. A 9 (n1,2) .....Poteau
Luttrell, Pearl. A 25 (s) .....Norman
Luykx, Dirk Jacobus. E u (n1,2) .....Tulsa
Lyday, Florice. A 13 (n1,2) .....Kemp
Maass, Angela. A u (s) .....Kingfisher
Maass, Loella. A u (ns) .....Kingfisher
Mabry, Gladys. A 15 (n1,2) .....Beaumont, Texas
Mackey, Clifton Marion. A 140 (1,2); E 116 (1,2) .....Durant
MacMillan, Gaylord. A u (n2) .....Ada
Madden, Dora E. C (1) .....Cherokee
Madden, Elwood C. A 106 (1,2) .....Cherokee
Madden, Frank. P 22 (s,1,2) .....Norman
Madden, Mrs. J. W. F u (1,2) .....Norman
Magee, Carl, Jr. A 4 (n1,2) .....Tulsa
Magee, Mrs. Erma Wyatt. A u (ns) .....Wynnewood
Magee, Maurice. A u (s) .....Wynnewood
Maguire, James D. A u (ns) .....Norman
Maguire, Mrs. J. D. A u (n2) .....Norman
Maitlen, Florence. N (s,1,2) .....Oklahoma City
Maitlen, Gladys. N (n1) .....Cushing
Major, Don David. E (n1,2) .....Chickasha
Majors, Carrie Myrtle. F 11 Piano 8 (n1,2) .....Asher
Mallory, Jasper Newton. A 87 1-2 (s) .....Justin, Texas

Maloy, Addie. F u (1,2) .....Norman
Maloy, Flora. A 53 (s,1,2) .....Norman
Maness, Helen. A 4 (ns) .....Red Rock
Manigold, Augusta. A (n2) .....Geary
Manly, Delbert Genar. A 17 (n1,2) .....Oklahoma City
March, Sarah Irene. A 17 (n1,2) .....El Reno
Marchant, Clyde. A 5 (n1,2) .....Wapanucka
Marchant, Guy. A 22 (1) .....Wapanucka
Marrs, James Wyatt. A 86 (1,2) .....Chickasha
Marsh, Robert Comer. A 16 (1,2) .....Madill
Martin, Blanche. C (n1,2) .....Walter
Martin, Carrie Anne. F 49 Piano 38 Voice 16 (s,1,2) .....Norman
Martin, Emmett Otis. A 17 (n1,2) .....Cushing
Martin, Nona H. N (n1,2) .....Shattuck
Martin, Sophia Esther. A 26 (s) .....Norman
Mason, William Sterling. A 14 (n1,2) .....Mountain View
Masterson, Leo Allen. X (n1) .....Oklahoma City
Mathews, John Joseph. A 55 (1,2) .....Pawhuska
Mauk, Jean Marie. A 95 (1,2) .....Oklahoma City
Mayfield, Warren. A 50 (1,2) .....Norman
Maynard, Wilbert. F 30 Piano 48 Cornet 16 Cello 16 (n1,2)...Kansas City, Mo.
McAdams, Alpha May. A 37 (1,2) .....Texhoma
McBee, Gladys. A 44 (ns,1,2) .....Oklahoma City
McBryde, Lillie Alice. A 35 (s,1,2) .....Whitesboro, Texas
McCain, Barnes. L 70 (1,2) .....Quinton
McCain, Frank. A 111 (1,2); L 15 (1,2) .....Ada
McCalib, D. Preston. L u (1) .....Durant
McCall, Anne Rotan. A 107 (1,2) .....Norman
McCall, Bertha V. F u (n1,2) .....Norman
McCall, Mrs. Ezra. F u (n1,2) .....Norman
McCall, Laura. A 52 (1,2) .....Norman
McCall, Lewis. A u (ns) .....Norman
McCall, Ruby Nell. A 27 (n1,2) .....Carnegie
McCarrell, Ed. A 96 (s) .....Howe
McCasland, Naomi. F u (1,2) .....Duncan
McCasland, Thomas Howard. A 124 (1,2); L 6 (1); G (2) .....Duncan
McClearey, B. C. C (n2) .....Atoka
McClure, John Peebles. F u (1,2) .....Ada
McClure, Lex Otis. E 38 (1,2) .....Anadarko
McClure, Margaret. F u (1,2) .....Norman
McClure, Nell May. A 77 (1,2) .....Cushing
McClure, Sadie Belle. F u (1,2) .....Norman
McComic, Rosa. A 30 (1) .....Nowata
McConville, Kathryn. A u (ns) .....Wilburton
McCorkle, Charlotte Jennette. X (n1) .....Oklahoma City
McCormick, Gertrude. C (n2) .....Chandler
McCoy, John Porter. A u (ns) .....Norman
McCullough, Archibald Mason. A 121 (s,1,2) .....Norman
McCune, Murray Mars. A 1 (n1,2) .....Perry
McDermott, Hugh. A 25 (ns,1,2) .....Duncan
McDow, J. B. A u (n2) .....Alma
McDowell, Wilds H. A 12 (n1,2) .....Geary
McFarland, Ernest William. A 87 (n1,2) .....Earlsboro

McFerron, George I. A 42 (1,2) .....Norman
McGaha, Byron Churchill. A 17 (n1,2) .....Oklahoma City
McGaha, Charles Peevey. A 62 (1,2) .....Madill
McGee, Leola Edna. F u (n1,2) .....Norman
McGee, Pearl Lucile. F u (n1,2) .....Norman
McGibbony, Eva. A 4 (s,1,2) .....Stroud
McGibbony, John. A u (n1) .....Sapulpa
McGinley, Nellie May. F u (1) .....Norman
McGlathery, Earl Jennings. A 14 (n1,2) .....McLoud
McGlothlin, William Claude. A 9 (n1,2) .....Shawnee
McGuire, Bobbie. A 49 (s) .....Waurika
McGuire, Bell. F u (n2) .....Norman
McGuire, Margurette. A u (s) .....Norman
McGuire, Maude Clarice. F 15 Piano 26 (1,2); A 18 (1,2) .....Norman
McInnis, Varis. X (n1) .....Oklahoma City
McKanna, Roy Burgess. E 18 (n1,2) .....Oklahoma City
McKeehan, Guy. P u (ns) .....Broken Arrow
McKeehan, Roy Weston. P 16 (n1,2) .....Broken Arrow
McKinnan, Mary Edna. N (s,1,2) .....Oklahoma City
McKinney, Margaret. F u (n1,2) .....Norman
McLane, Charles L. E 54 (1,2) .....Chandler
McLaughlin, T. W. C (n2) .....McAlester
McLaurey, Finley. L 70 (1,2) .....Snyder
McLoud, Keith. C (n1) .....Roff
McMahon, Eugene. A 125 (s) .....Lawton
McMakin, Florence Ila. F (Grad) (1,2) .....Norman
McMillan, Charles B. M 3rd (1,2) .....Oklahoma City
McMillan, Mary Robinson. A 44 (1,2) .....Norman
McMillan, Ralph. A u (n2) .....Ada
McMullen, Herman Ray. C (n1,2) .....Billings
McMurtrey, Marvin Spurgeon. A 102 (s,1,2) .....Alva
McNamee, Chloe Olive. F u (n1,2) .....Norman
McNamee, Cora. A u (ns) .....Norman
McNeese, Florette. G 23 (1,2) .....Oklahoma City
Meacham, Edgar D. G 12 (1,2) .....Norman
Meacham, Egbert Johnson. L 9 (n1,2) .....Clinton
Meacham, Mrs. Ray Ferrell. F 62 (s); A 89 (s,1,2) .....Norman
Merkle, Bess. G 4 (s) .....Norman
Merrill, Maurice Hitchcock. A 17 (n1,2) .....Stratford
Meyer, Ansel Leslie. P 16 (n1,2) .....Chattanooga
Meyer, Arthur McCool. A 43 (1,2) .....Tecumseh
Meyer, Clifford Clinton. A 79 (1,2) .....Norman
Meyer, Daniel Frederick. A 96 (s,1,2) .....Norman
Meyer, Mrs. Etta Nairn, F u (2) .....Norman
Meyer, Joe. A 62 (s,1,2) .....Hot Springs, Ark.
Meyer, Lois. F u (1,2) .....Purcell
Meyer, Milton Frederick. L 68 (2) .....Norman
Meyer, Roger Cleveland. C (1,2) .....Purcell
Michaelson, Margaret. A u (s,2) .....Oklahoma City
Mideke, Leo. F u (n1,2) .....Oklahoma City
Miler, Kirk. A u (n2) .....Pauls Valley
Miles, Arthur Dale. E 2 (n1,2) .....Perkins
Miles, Charles Maple. L 41 (1,2) .....Beaver

Miles, Walter Howard. A 75 1-3 (s,1,2) .....Oklahoma City
Miller, Dora. A u (ns) .....Vera
Miller, Edward Floyd. E 18 (n1,2) .....Cordell
Miller, Elizabeth. X (n1) .....Oklahoma City
Miller, Ethel. A u (ns) .....Norman
Miller, Floyd E. A 66 (ns) .....Alva
Miller, Frances Orpha. F u (n1,2) .....Norman
Miller, Luther M. A 17 (n1,2) .....Newkirk
Miller, Mary Emelyn. A 94 (1,2); F 39 Piano 72 (1,2) .....Norman
Miller, Ray. L u (n1) .....Fort Gibson
Miller, Verda Ethel. F 28 Piano 36 (n1,2) .....Enid
Miller, Willard Lee. E 19 (n1,2) .....Oklahoma City
Milliken, John Clyde. E 18 (n1,2) .....Blair
Milliken, William Edgar. E (n1) .....Altus
Mills, Mrs. Emma Gard. X (n1) .....Oklahoma City
Mills, Rosalie Vivian. C (1) .....Shawnee
Minteer, Elveta May. F u (ns,1,2) .....Norman
Minton, Harvey Lee. A 112 (1,2) .....Enid
Mitchell, Greta Mabel. A 30 (s,1,2) .....Norman
Mitchell, John Blake. A 125 (s) .....Purcell
Moffett, Lockie Leora. A (1) .....Norman
Monahan, William. L 39 (1,2) .....Edmond
Moncrief, William Alvin. A 47 (s,1,2) .....Checotah
Monical Delfred John. A 39 (1,2) .....Norman
Monnet, Eugene Orton. A 100 (1,2) .....Norman
Monnet, Florence. F u (1,2) .....Norman
Monroe, Hugh Houston. A 22 (n1,2) .....Lindsay
Monsell, M. E. C (n2) .....Anadarko
Montgomery, Anna. A 10 (n1,2) .....Hobart
Montgomery, Cecil G. E 9 (n1) .....Shattuck
Montgomery, Effie Irene. A 124 1-3 (s,1) .....Norman
Montgomery, Homer R. E 54 (1,2) .....Muskogee
Montgomery, Samuel James. L 36 (1,2) .....Bartlesville
Moore, Albert Reed. A 124 (1) .....Oklahoma City
Moore Eudora. N (n1,2) .....Waterloo
Moore, Frank. A 10 (n1,2) .....Purcell
Moore, Margaret Lorraine. F u (n1,2) .....Purcell
Moore, Ruth Emma. F u (1,2) .....Purcell
Moore, William Francis. P 12 (n1,2) .....Beaver
Morgan, Clara Belle. F 47 Piano 56 (s,1,2) .....Norman
Morgan, Edward A. M 3rd (s,1,2) .....Oklahoma City
Morgan, Glenn E. A 17 (n1,2) .....Enid
Morgan, Helen Fay. A u (s) .....Cornish
Morgan, John. A 67 (s,1,2) .....Meeker
Morgan, Ruth. A 1 (s,1,2) .....Norman
Morris, David. A u (ns) .....Norman
Morris, Ethel Vivien. A 16 (n1,2) .....Earlsboro
Morris, Ferd. A 17 (n1,2) .....Altus
Morris, John Everett. A 8 (n1,2) .....Walter
Morris, Leila. A u (ns) .....Oklahoma City
Morris, Lewis. L 41 (1,2) .....Norman
Morris, Ruth Simpson. A 125 (s) .....Norman
Morrisett, Lloyd N. A 69 (n1,2) .....Edmond

Morrison, Chester. A u (n2) .....Norman
Morrison, Ethel. A 80 (s) .....Norman
Morrow, Nellie L. A u (n2) .....Norman
Morrow, Paul R. G (ns) .....Chickasha
Morrow, Ralph D. P 15 (1,2) .....Wakita
Morrow, Walter Alexander. A 68 (s) .....Norman
Moseley, John Ohleyer. G 16 (n1,2) .....Lawton
Mosher, Donovan D. P 16 (n1,2) .....Wagoner
Mote, Paul. A 17 (n1,2) .....Kiefer
Motley, Zella. A u (ns) .....Hollis
Mott, Isaac Elmer. A 100 (n1,2) .....Norman
Mott, Mary Grace. A 7 (n1,2) .....Norman
Mount, Rita Vanzy. A 2 (n1,2) .....Norman
Mulkey, Francis P. A 37 (1,2) .....Oklahoma City
Mulvey, Alice. A 31 (n1,2) .....Yukon
Mumma, James Elmer. A u (s) .....Norman
Murdock, Frank E. A 47 Voice 2 (1,2) .....Cordell
Murph, Wesley Keener. A u (n1,2) .....Norman
Muskrat, Maude Dorcas. A u (ns) .....Grove
Myers, Paul W. A 64 (n2) .....Weatherford
Myers, Walter Emanuel. E 32 (1,2) .....Weatherford
Napier, T. G. A u (s,2) .....Terral
Nash, Lady Olive. A 106 2-3 (1,2) .....Norman
Nash, Mell Achilles. A 101 2-3 (s,1) .....Madill
Naugher, Trigg W. M 3rd (n1,2) .....Tuscaloosa, Ala.
Neal, Lizzie. A 79 (n1,2) .....Altus
Neeley, Shade Durrett. A 33 (1,2) .....Spiro
Neff, Florence Gentry. X (n1) .....Oklahoma City
Neighbor, Hazel. A (ns) .....Madill
Nelson, Strauder. L 15 (1,2) .....Muskogee
Neville, Jalie. A (n2) .....Vinita
Newblock, Marguerite. F u (n1,2) .....Norman
Newby, Warner W. A 38 (1,2) .....Norman
Newell, Ruth Brannon. F G (1,2) .....Norman
Nice, Ethel Bell. A 2 (n1,2) .....Athens, Ohio
Nice, Leonard Blaine. M u (2) .....Norman
Nichols, Clarence. C (2) .....Anadarko
Nichols, Estelle Grace. A u (ns) .....Weatherford
Nichols, Stella. A 78 (s,1) .....Geary
Nichols, Victor. A 18 (1,2) .....Guthrie
Nicholson, Carl Alvin. P 67 (1) .....Fairview
Nickle, Miss Charlie. A u (1,2) .....Norman
Nicols, Georgia. A u (s) .....Purcell
Noel, May Belle. A 43 (s,1,2) .....Jefferson
Noland, Earl Talmadge. E 18 (n1,2) .....Dewey
Norman, Bonny Ola. F 22 Piano 46 (1,2) .....Oklahoma City
Norman, Crofford Wilson. A 114 (1,2); L 4 (1) .....Randlett
Norris, Grace Augusta. A 74 (n1,2) .....Weatherford
Northcutt, Marion John. L 42 (1,2) .....Mangum
Norvell, Murvine C. A 42 (1,2) .....Wynnewood
Novak, Charles Joseph. E (n1) .....Yukon
Nunn, Wesley Irvin. A 40 (1,2) .....Shawnee
Nunnery, Arthur Winfield. M 4th (1,2) .....Granite

Oakes, Malcolm Christie. E 131 (s,1,2); A 102 (s,1,2) .....Norman
O'Connell, Henry J. C (1) .....Oklahoma City
Odermann, Harry Stephens. E 127 Piano 32 (1,2) .....Oklahoma City
Olander, Helen. A u (ns,2) .....Oklahoma City
Oldham, Allie. F u (ns) .....Coalgate
Olentine, Robert J. L u (n2) .....Muskogee
Oliphant, Claude Waite. F u (n1,2) .....Norman
Oliphant, Jean. F 13 Voice 16 (1,2) .....Norman
O'Neil, Florence Waite. F u (n1,2) .....Norman
O'Neil, Florence Marie. X (n1) .....Oklahoma City
O'Neil, Irene Marguerite. X (n1) .....Oklahoma City
Orendorf, Esther. A u (ns) .....Norman
Orr, Abner Ross. G 14 (s,1) .....Dewey
Orr, John Roy. L 42 (1,2) .....Rosemond, Ill.
Orr, Milo M. E 40 (1,2) .....Oklahoma City
Ostenberg, Stella Cecilia. A 114 Piano 16 (1,2) .....Claremore
Oster, Clifford Carl. E 116 (1,2) .....Hobart
Osterhaus, Augusta. A u (s) .....Norman
Osterhaus, Katharyn Dorothea. A 122 (s,1,2); G 4 (2) .....Norman
Ottesen, Theodore Harvey. L 29 (1,2) .....Nevis, Minn.
Packard, Ellen. A 16 (1) .....Oklahoma City
Paden, Mrs. Felicia. A 36 (ns) .....Broken Bow
Page, Charles Return. A u (n1,2) .....Chadbourn, N. C.
Palmer, Maude Arline. N (n1,2) .....Elk City
Parker, George Q. A 8 (ns) .....Ryan
Parks, Eunice Olive. X (n1) .....Oklahoma City
Parks, Hiram David. P 16 (n1,2) .....Hennessey
Parks, Jessie Livingstone. A 75 (s,1) .....Enid
Parks, Ruth Ann. F 64 Voice 20 Piano 64 (s) .....Tahlequah
Parks, William Early. P 67 (1,2) .....Tipton
Parmalee, Arthur. A 108 (s) .....Oklahoma City
Parsons, Mrs. Nellie Hunt. A 82 Piano 24 (1,2) .....Norman
Patchell, Jewel. A 99 (s,1,2) .....Pauls Valley
Patrick, Harriet. A 75 (1,2) .....Stroud
Patton, Esther. G 10 (s) .....Norman
Patton, Mary Emma. A 4 Piano 8 (s,1,2) .....Norman
Patton, Pansy Patti. A 65 (s,1,2) .....Norman
Patton, Paul X. A 65 (s,1,2) .....Norman
Pauly, Frank Robert. A 75 (s,2) .....Edmond
Paxton, Adelaide Frances. F u (s) .....Norman
Paxton, Josephine. F u (ns) .....Norman
Payne, Mildred Lousile. C (n1) .....Noble
Peach, Guine. A 79 (ns,1,2) .....Bridgeport
Peaster, Cloid W. X (n1) .....Oklahoma City
Pembleton, Eugene William. E 92 (1,2) .....Shawnee
Pendleton, Eva Marguerite. F u (1) .....Norman
Pendleton, Xyla Frances. F u (n2) .....Norman
Percival, Fred M. C (n2) .....Rockport, Texas
Perkins, Chester Henry. M 63 (1,2); A 74 (1,2) .....Temple
Perry, Edith. A 77 1-3 (s,2) .....Carmen
Peter, Bertha. A 72 (s) .....Kingfisher
Peters, Frank. A u (s) .....Drumright
Peterson, K. Berry. L 54 (1,2) .....Tahlequah

Petty, Curtis. A 93 (s) ..... Noble
Petty, Earl. A 63 (s) ..... Noble
Phelps, Joseph. M 17 (1,2); A 28 2-3 (s,1,2) ..... El Reno
Philips, Eli Willie. A (n1,2) ..... Norman
Philips, James Herbert. E 74 (1) ..... Pauls Valley
Philips, Mollie May. F u (n1,2) ..... Norman
Phillips, Harry Hill. A 8 (n1,2) ..... Norman
Phillips, Leon Chase. L 70 (1,2) ..... Arapaho
Phinney, Annie. A (n2) ..... Norman
Pickard, Leila. A 24 (s,2) ..... Norman
Pickerill, Lola Marie. A 96 (s) ..... Edmond
Pickerill, Nina. A u (ns) ..... Edmond
Pieretts, The Reverend Alfonso. X (n1) ..... Oklahoma City
Pigg, Albert M. E u (1,2) ..... Boynton
Pittman, Clara. A 8 (ns) ..... Hooker
Pitts, Dona Moree. A 102 (1,2) ..... Norman
Pitts, Marvel Olive. A 111 (s,1,2) ..... Norman
Pitts, M. M. A u (n2) ..... Norman
Plank, Helen Bertha. F u (n1) ..... Muskogee
Plummer, Helen Mar. A 29 (2) ..... Broken Arrow
Plunkett, James Delbert. L 14 (n1,2) ..... Bartlesville
Polk, Alice. A u (ns) ..... Norman
Ponder, Charles Elmer. A 51 (1,2) ..... Mangum
Porte, Joseph Leon. L (n1) ..... Norman
Potterf, Elise. A 44 (1,2) ..... Ardmore
Potts, Minnie Eula. A 77 Piano 27 (1,2) ..... Frederick
Powell, Jay A. M 38 (n2); A 32 (n2) ..... Dothan, Ala.
Powell, May E. X (n1) ..... Oklahoma City
Powers, Jesse Lewis. A 79 (n1,2) ..... Thomas
Pownell, Admiral Munrow. E 82 (1,2) ..... Hennessey
Prentiss, Harley Marton. M 69 (s,1) ..... Bartlesville
Preskitt, Winnie. A u (ns) ..... Norman
Presson, Virgil. A 17 (n1,2) ..... Poplar Bluff, Mo.
Pribbenow, Frantz. A 16 (n1,2) ..... Chandler
Price, Charles. A 52 (1,2) ..... Asher
Price, Mrs. Ed. F u (n2) ..... Purcell
Price, Nora. N (s) ..... Oklahoma City
Prim, Benjamin Bascom. A u (n1) ..... Wynnewood
Proffitt, Ida May. A u (s) ..... Norman
Proffitt, Maude Lucine. A 13 (n1) ..... Norman
Prudhom, Claude E. A 81 (n1,2) ..... Edmond
Pruet, Robert Ray. A 133 (s,1,2); L 15 (1,2) ..... Norman
Pruet, Mrs. Robert Ray. A u (s,2) ..... Norman
Pruet, Walter. L u (n2) ..... Norman
Pruitt, John Williams. X (n1) ..... Oklahoma City
Purviance, John Walker. P 6 (n1,2) ..... Ryan
Queenan, Lillian. X (n1) ..... Oklahoma City
Queenan, Ruth. X (n1) ..... Oklahoma City
Quicksall, Carl. G 19 (s,2) ..... Caney, Ky.
Quaid, T. D. D. C (1,2) ..... Tishomingo
Ralls, Joseph Green. L 5 (n1,2) ..... Atoka
Ralston, James Malcolm. P u (1,2) ..... Orlando
Ramey, Pate Frankie. A 17 Piano 8 (n1,2) ..... Hollis

Ramseier, Irving B. C (n2) ..... Fairview
Randels, Ora. A 47 (1,2) ..... Enid
Randles, Helen. F u (n1,2) ..... Okemah
Rankin, John A. C (n2) ..... Guthrie
Ratner, Payne Harry. L (n1) ..... Blackwell
Raupe, Earl James. A 4 (n1,2) ..... Wellston
Ray, Elmer L. P u (n1,2) ..... Jester
Rea, William Robert. G 8 (s) ..... Guthrie
Reading, Ethel. A 96 (ns,1,2) ..... Oklahoma City
Reading, Ivan H. A u (n2) ..... Oklahoma City
Reading, Ora Lee. X (n1); N (n1,2) ..... Ochiltree, Texas
Reasor, Christopher D. E 35 (1,2) ..... Shawnee
Redmond, Esther Lucille. A 50 (1,2) ..... Thomas
Reed, Frances Bertha. A 8 (s) ..... Checotah
Reed, George Woody. L u (n1,2) ..... Fonda
Reed, Guy Leland. E 18 (n1,2) ..... Mountain Park
Reed, Howard Leonard. M 4th (1,2) ..... Oklahoma City
Reed, Paul W. A u (n2) ..... Shawnee
Reeves, Claude L. A 71 (n1,2) ..... Bokchito
Reeves, Edward Henry D. E 26 (s,1); A 40 (s,1) ..... Gould
Reeves, Nell Wilson. A 8 Piano 3 (s,1) ..... Gould
Reeves, Theodore Carlos. E 11 (n1,2) ..... Tecumseh
Reeves, Winnie. F u (n2) ..... Noble
Reid, Carl P. C (n2) ..... Elk City
Reid, John Robert. A 101 (n1,2) ..... Blair
Reid, Lewis I. E 37 (1,2) ..... Blair
Reid, Mary. A 83 (s,1,2) ..... Dallas, Texas
Reilly, Louis. L 41 (1,2) ..... Durant
Renfrow, Irlene. A 17 (n1,2) ..... Billings
Rentfrow, Frank. E 13 (n1,2) ..... Pond Creek
Revell, Rachel Hanes. M 22 (1,2) ..... Norman
Revelle, Jarmie. A u (ns) ..... Walter
Revelle, Wakefield. A 42 (n2) ..... Walter
Reynolds, Kenneth Egbert. E 116 (1,2) ..... Weatherford
Reynolds, Roy Alvin. L 70 (1,2) ..... Norman
Rice, Nora Eunice N. (1,2) ..... Avery
Rice, Olivia. A 121 (s,1) ..... Norman
Richards, Homer M. E 86 (1,2) ..... Cleveland
Richards, J. P. A u (ns) ..... Tulsa
Richards, James Taylor. E u (ns) ..... Tulsa
Richardson, Clara. F u (ns) ..... Headrick
Richardson, Elizabeth. A u (n1) ..... Pryor
Richardson, Ivin G. A 79 Voice 2 (1,2) ..... Union City
Richardson, Lorena Hazel. A u (n1,2) ..... Sparks
Riddle, Royal S. A 3 (ns,1) ..... Chickasha
Riddle, Virgil E. A 77 (n1,2) ..... Ada
Rider, Charles Robert. A 82 (1,2) ..... Madill
Rieger, Joseph A. A 12 (1,2) ..... Norman
Riley, Fletcher Settle. A 107 (s) ..... Lawton
Riley, Pauline. A 17 (n1,2) ..... Lawton
Ringer, Gladous Ray. A u (ns) ..... Edmond
Ringle, Howard E. E 8 (n1,2) ..... Strang
Risen, Homer. E 42 (1,2) ..... Hooker

Risley, William Edgar. P 25 (2) .....Hastings
Ritchey, Mary Elizabeth. A 81 (n1,2) .....Durant
Roach, Lillian Blanche. F 5 Voice 8 Piano 16 (n1,2) .....Tulsa
Roark, George L. A 81 (s,1,2); M 48 (1,2) .....Norman
Roark, Mrs. Grace M. A u (ns) .....Norman
Robbins, Frank William. L 62 (1,2) .....Norman
Robertson, Augusta Melissia. N (n1,2) .....Newkirk
Roberts, Elisha Houston. M 4th (n1,2) .....Corsicana, Texas
Roberts, Myrtle. F u (n1,2) .....Ponca City
Roberts, Otis Alan. E (n2) .....Ponca City
Robertson, Winifred. A u (n1) .....Oklahoma City
Robinson, Allie Ruth. F u (1,2) .....Norman
Robinson, Robert Philleo. A 50 (1,2) .....Muskogee
Roff, Charles Luther. L 35 (1,2) .....Norman
Rogers, Neva B. A 83 Piano 14 (s,1,2) .....Norman
Roper, John Elmer. A 5 (n1,2) .....Lawton
Rorem, Samuel Dale. A 7 (n1,2) .....Britton
Rose, Otto. P 12 (n1,2) .....Atoka
Ross, Edith Olive. A 79 (1,2) .....Oklahoma City
Rowe, Benjamin Proctor. A u (n1,2) .....Hinton
Rowe, Ural Alps. L 70 (1,2) .....Blair
Rowland, Annie. A 17 (n1,2) .....Shawnee
Rowland, Barnett. A u (n2) .....Shawnee
Ruble, Walter Jack. A 36 (1,2) .....Pawhuska
Rucker, Wayne N. F u (ns,1) .....Norman
Rudd, Gladys. A (n2) .....Tulsa
Rumley, Grover Garfield. E 7 (n1,2) .....Keota
Runyan, Foy Anne. A 33 (2) .....Norman
Runyan, Ruby May. N (n1,2) .....Lawton
Russell, Christy. L 68 (1,2) .....Warner
Russell, Eula. A 116 (1,2) .....McAlester
Russell, Luther. A 69 (1,2) .....McLoud
Russell, Ruby Irene. A u (n1) .....Lawton
Rutherford, Robert L. P u (n1,2) .....Sapulpa
Sadler, Lena Hylinda. F 13 Voice 6 1-2 (1,2) .....Norman
Sale, M. Clarence. A 9 (n1,2) .....Chickasha
Salman, Phinehas. M 58 (s,1,2); A 46 (s,1,2) .....Norman
Salter, Leslie Ernest. A 45 (1,2) .....Carmen
Salter, Lewis Spencer. A 77 (s,1,2) .....Carmen
Salwaechter, Christian Henry. E 51 (1,2) .....Carmen
Sams, Genevieve. F 18 Piano 32 Violin 4 (2) .....Nowata
Sanders, Harold Barefoot. A 12 (n1,2) .....Chickasha
Sanders, Leo. E u (n1,2) .....Verden
Sandford, F. M. C (n2) .....Arnett
Sanger, Fenton Almer. P 4 (n1,2) .....Oklahoma City
Sanger, Fenton Mercer. P u (n1) .....Oklahoma City
Sargent, John Frank. A 30 (n2) .....Hopkins, Mo.
Saunders, Mrs. Clarence. F u (n1,2) .....Norman
Sayre, Robert Mitchell, E 17 (n1,2) .....Ardmore
Scales, Pearl Ruth. A 84 (s,1,2) .....Calvin
Schaefer, Hedwik. A 62 (n2) .....Mountain View
Schafer, Harry J. A u (1,2) .....El Reno
Scheefers, Joseph B. X (n1) .....Oklahoma City

Schiele, Bertha Louise. F 52 Violin 52 Piano 8 (s) .....Oklahoma City
Schlabach, Frank Lyman. A 67 (1,2) .....Oklahoma City
Schmidt, George Frederick William. A 47 (s) .....Lone Wolf
Schmidt, Ludwig. E 51 (1,2) .....Sapulpa
Schoggen, Walter Bralley. A 58 Voice 5 (1) .....Prague
Schoggen, William B. A u (ns,2) .....Crowder
Schrameck, Victor E. E (n1,2) .....Oklahoma City
Schulze, William W. E 14 (n1,2) .....Norman
Scofield, Beatrice Regina. F u (n1,2) .....Muskogee
Scott, Haskell B. P u (n1,2) .....Cushing
Scott, Minnie Lee. A u (s,1,2) .....Noble
Scott, Mrs. W. A. X (n1) .....St. Louis, Mo.
Scroggs, Schiller. C (1) .....Fort Logan, Colo.
Scruggs, Juanita Gladys. A 53 (s,1,2) .....Norman
Scudder, E. W. G 3 (n1,2) .....Atoka
Sears, Lloyd Cline, A 53 (ns) .....Cordell
Seawell, LaMiza. F u (ns,2) .....Norman
Seelye, L. Milan. E u (n1,2) .....Oklahoma City
Seider, Gladys. A 86 (ns) .....Okmulgee
Selders, Raymond Everett. A 41 (1,2); E 42 (1,2) .....Oklahoma City
Sellers, Avis T. A 12 (1,2) .....Norman
Settle, Bessie. A 44 (1,2) .....Wynnewood
Sevey, William B. A 17 (1,2) .....Lawton
Sewell, Archie Luman. F u (ns,1,2) .....Norman
Shacklett, Sadie. A 34 (n1,2) .....Shawnee
Sharp, John Fletcher. A 111 (1,2); L 15 (1,2) .....Oklahoma City
Shead, Arthur Curtis. A 62 (s) .....Oklahoma City
Shead, Laurence Alfred. F 6 (ns,1,2); A (ns,1,2) .....Norman
Shead, Orson Keith. E u (1) .....Norman
Shead, Ralph Brownell. A 101 (s,1,2) .....Norman
Sheeks, May. C (s) .....Bristow
Sheldon, Carl Denton. A 9 (1) .....Norman
Sheldon, George Lawson. A 22 (2) .....Wayside, Miss.
Shelton, Tillman. L u (n1) .....Ada
Shepler, Ned. A 12 (n1,2) .....Lawton
Sheppard, Hubert. A 103 (2) .....Norman
Sherrow, Fred William. L 65 (1,2) .....Springfield, Mo.
Shingledecker, M. Mae. A u (n1,2); L u (1) .....Norman
Shirley, Will. C (n2) .....Stuart
Shoemaker, Beatrice Lee. N (1,2) .....Oklahoma City
Shofner, James Peyton. A 10 (n1,2) .....Caddo
Shoun, George B. P u (n1,2) .....Fairfax
Shriner, Richard Floyd. P 40 (1,2) .....Hobart
Shultz, Bennie. E 54 (1,2) .....Watonga
Shultz, Mrs. Minnie. F u (1) .....Norman
Shultz, Will Geoffrey. M (1,2) .....Lahoma
Shurtleff, Floyd George. A 17 (n1,2) .....Tulsa
Shutt, Georgia. A 50 Piano 32 Voice 20 (1,2) .....Pryor
Shuttee, Lucile. A 50 (1,2) .....El Reno
Silvy, Anna. X (n1) .....Oklahoma City
Simpkins, S. L. A u (ns) .....(Unknown)
Simpson, Earl J. A u (ns) .....Norman
Simpson, Ethel Elizabeth. F 11 Piano 8 (n1,2) .....Clinton

Sirkosky, Robert Walter. P 17 (n1,2) .....Oklahoma City
Sisson, Mrs. H. M. X (n1) .....Oklahoma City
Sivadon, Mack H. L (n1) .....Drumright
Six, Ray. A 37 (1,2) .....Norman
Skaer, Cecil Gilbert. L 13 (n1,2) .....Wichita, Kansas
Skorkowsky, Homer S. X (n1) .....Oklahoma City
Sledge, John Byron. A 115 (1,2) .....Ada
Sloan, Emma Ruth. F 8 Piano 8 (n1,2) .....Comanche
Small, Frank Miller. A 100 (1,2) .....Shawnee
Smiser, Raybourn. L 66 (1,2); A 20 (1,2) .....Norman
Smith, Dewitt Talmage. A u (n1,2) .....Norman
Smith, Dollie Ruth. F u (ns) .....Norman
Smith, Mrs. D. T. F u (n1,2) .....Norman
Smith, Edna Florence. G 6 (s) .....Moore
Smith, Ernest Jerome. A 55 (1,2) .....Norman
Smith, Ethel Maude. A 63 (1,2); F 53 Piano 63 Voice 8 (1,2) .....Tulsa
Smith, Fay Randolph. A 42 (n1) .....Chickasha
Smith, Frank Kye. A 131 (s,1,2) .....Norman
Smith, Gilbert Harmer. G 5 (n1,2) .....Norman
Smith, Harold Edgar. E 18 (n1,2) .....Welch
Smith, Maggie Alas. A u (ns) .....Norman
Smith, Matthew Hearn. A 56 (1,2) .....Norman
Smith, Melba. F u (s,1) .....Norman
Smith, Merle George. F u (n2) .....Norman
Smith, Reid B. X (n1) .....Oklahoma City
Smith, Ruth Esther. A 80 (1,2) .....Norman
Smith, Wilson Evan. A 48 (1,2) .....Moore
Smythe, Robert Wade. A 41 (1,2) .....Marlow
Snedaker, Dorothy. A 50 (1,2) .....Wagoner
Snell, Harold Franklin. F 55 (2); A 55 (s,1,2); M 4 (s,1) .....Norman
Snell, Ruth Eileen. A 57 (s,1,2); F 35 (s,1,2); Piano 8 .....Norman
Snider, Fred Morgan. C (s,2) .....Pauls Valley
Snider, Lafayette Benjamin. G 30 (s) .....Weatherford
Snow, Walter C. A 73 (n1,2) .....Ada
Sorey, Tom Lester. E 55 (1,2) .....Oklahoma City
Soutar, Richard Gray. M u (1,2) .....Norman
Souter, J. Ellis. A 56 (s,2) .....Magnolia, Ark.
Sprague, D. L. C (n2) .....Elmwood
Staker, Jennie. A 72 (ns) .....May
Staley, Floyd E. A (n2) .....Checotah
Stater, Gordon D. L 42 (1,2) .....Oklahoma City
Staubus, Janet. A 17 (n1,2) .....Chandler
Steckel, Edith Mildred. A 112 (s,1,2) .....Norman
Steed, Leone V. A 101 Voice 7 (n1,2); .....Ada
Steedman, Aubrey Earl. E 43 (1,2) .....Hobart
Steel, Lee. A 64 (s) .....Newport
Steen, Lonie Eola. A u (ns) .....Norman
Stephens, Bettie. G 2 (s) .....Norman
Stephens, Charles Robert. A 43 (1,2) .....Norman
Stephens, Earl Winfred. P 46 (1,2) .....Hastings
Stephens, Lela. A 66 (s,1,2) .....Norman
Stephens, Nina. G 8 (s) .....Norman
Stephens, Sallie. N (s,1,2) .....Norman

Stephenson, Walter. A 75 (n1) ..... Antlers
Stephenson, W. Rae. A 44 (ns) ..... Chattanooga
Stevens, Lucian Henry. A 6 (n1) ..... Lexington
Stevens, Razzie. A 38 (1) ..... Lexington
Stevenson, Emma. A 17 (n1,2) ..... Sallisaw
Stevenson, Margaret Wheeler. A 17 (n1,2) ..... Sallisaw
Stewart, Dan D. A 64 (n1,2) ..... Durant
Stiles, Edward Bryan. A 17 (n1,2) ..... Cushing
Stiles, Jessie. L 67 (1,2) ..... Pryor
Stocking, Anna Grace. A (n2) ..... Norman
Stocking, Homer G. A 39 (n1,2) ..... Clarendon, Texas
Stockwell, Paul. E 50 (1,2) ..... Alva
Stone, Ervin Douglas. E (1,2) ..... Oklahoma City
Storm, Willis. A 41 (1,2); L (1) ..... Oklahoma City
Stough, D. B., Jr. A u (ns) ..... Vinita
Strader, Simon Ernest. M 3rd (s,1,2) ..... Yukon
Strange, Alex Wisner. A 17 (n1,2) ..... Lone Wolf
Strange, Frances. F 11 Piano 24 (n1,2) ..... Lone Wolf
Strosler, Virginia Catherine. A 70 (s,1,2) ..... Oklahoma City
Strother, Grover Dudley. M 20 (1,2); A 47 (s,1,2) ..... Altus
Strother, Virginia. F u (1,2) ..... Altus
Stuart, Charles. A u (n1,2) ..... Oklahoma City
Sturgeon, Vivian Virginia. A 36 (1) ..... Thomas
Sugg, A. I. A 52 (s,1,2) ..... Lone Wolf
Sullivan, Paul Dodson. A 99 (1,2); L 15 (1,2) ..... Lone Grove
Sullivan, Ruth. A 105 (s,1,2) ..... Lone Grove
Suman, Albert Ward. A 17 (n1,2) ..... Ponca City
Suman, Edwin Elisha. M 26 (1,2) ..... Lawton
Sunday, Verna Ethel. N (n1,2) ..... Oregon City, Oregon
Swalley, Lucy. A 8 (ns) ..... Newkirk
Swartz, Lillie. F u (n2) ..... Purcell
Swatek, Charles. E 41 (n1,2) ..... Oklahoma City
Swatek, Clara Elizabeth. A 126 (s) ..... Oklahoma City
Taggart, Nannie Ellen. A 45 (n1,2) ..... Enid
Tague, John B. A 105 (1,2); L 13 (1,2) ..... Lawton
Taliaferro, Charles Chaplain. A 17 (n1,2) ..... Oklahoma City
Taliaferro, Henry Beauford. A 30 (1,2) ..... Madill
Tallman, Albert Floyd. A 7 (n1,2) ..... Wellston
Tallman, Ernest Wells. L 13 (n1,2) ..... Welch
Tanner, B. F. A u (ns) ..... Norman
Tatum, James Lewis. A 47 (1,2) ..... Devol
Taylor, Bernice. A u (s,2) ..... Norman
Taylor, Beulah. A 58 (s,1) ..... Norman
Taylor, Charles Harold. F u (ns,1) ..... Norman
Taylor, Edward Raymond. A 34 (2) ..... Wapanucka
Taylor, Frank Flynn. L 13 (n1,2) ..... Drumright
Taylor, L. A. C (n2) ..... Stillwater
Taylor, Lottie Orr. A 108 (s,1,2) ..... Norman
Taylor, Martha Idella. A u (s) ..... Norman
Taylor, Ross Alva. E 81 (s,1,2) ..... Norman
Taylor, Sarena. F u (n1,2) ..... Elk City
Taylor, Susie Ada. A u (s) ..... Norman
Taylor, William Harlan. F u (ns) ..... Norman

Tebbe, Gerald Stamper. G 4 (s,1,2) .....Perry
Teller, Hyman Julius. L (n1,2) .....New York City, N. Y.
Thacker, Constance Etta. A u (n1,2) .....Norman
Thatcher, Lucile. X (s) .....Oklahoma City
Thoburn, Mary Eleanore. A 64 (s,1,2); F 44 Piano 20 (s,1,2) .....Norman
Thoma, Eva Joe. F u (n1,2) .....Norman
Thoma, Irene Alice. F 11 Piano 6 (n1,2) .....Norman
Thoma, Mary Helen. A 17 Violin 3 (n1,2) .....Norman
Thomas, Harry, A 12 (n1,2) .....Oklahoma City
Thomason, Frank. M 3rd (1,2) .....Oklahoma City
Thomason, Leonard Wells. L 13 (n1,2) .....Durant
Thompson, Clyde Thomas. C (1) .....Muskogee
Thompson, Jesse D. A 63 (n1,2) .....Headrick
Thompson, Miller. P 47 (1,2) .....Norman
Thompson, Myrtle Raney. F 38 Piano 18 (1,2) .....Okarche
Thompson, Ruth. A 9 (1,2) .....Oklahoma City
Thompson, Tom Hall. X (n1) .....Oklahoma City
Thornton, Charles Garner. L 23 (1,2) .....Edmond
Thornton, Helen. A (n2) .....Oklahoma City
Thorp, Udee. F u (n1) .....Cement
Tibbits, Fred L. A 112 (1,2) .....Crescent
Tillotson, Albert K. A u (ns) .....Oklahoma City
Tillotson, Delos. L 12 (1,2) .....Nowata
Titus, Edith. A 79 (1,2) .....Cherokee
Toberman, John P. A 42 Violin 3 (1,2) .....Norman
Toberman, Pearle A. F u (n2) .....Norman
Tobin, Thomas P. C (n2) .....Shawnee
Todd, Harrison. A 74 (s,1,2) .....Martha
Toepelmann, Walter Carl. A 112 (n1,2) .....Norman
Tolbert, James R., Jr. A 14 (n1,2) .....Hobart
Tolbert, Ruth Ann. A 89 (s,1,2) .....Hobart
Tomlinson, Earl. A 14 (1) .....Lawton
Torrey, John Paine. A u (ns) .....Norman
Towner, Walter. C (n2) .....Muskogee
Tretten, O. C. C (n2) .....Soledad, Cal.
Tribbey, Cy. A 66 (1,2) .....Tonkawa
Tribbey, Walter Joseph. E 14 (n1,2) .....Maud
Trosper, Ray. A 34 (1,2) .....Oklahoma City
Trout, Mary Loretta. A 15 (s,1,2) .....Norman
Trout, Vinnie Lee. A u (1,2) .....Norman
Trunk, Matilda Marguarit. A 85 (s) .....Weleetka
Townes, Stanmore Brooks. X (n1) .....Oklahoma City
Tucker, Andrew Lewis. A 73 (1,2) .....Maud
Tucker, Dorothy. F u (ns) .....Norman
Turbyfill, Subert. F u (n1,2) .....Norman
Turk, Florence W. A u (ns) .....Purcell
Turley, Mrs. Anna G. A 70 (2) .....Norman
Turner, Ethel Ione. A 82 (1,2) .....Oklahoma City
Turvey, Esther Nora. F 13 (2) .....Haskell
Tuttle, R. J. A (n2) .....Cattaraugua, N. Y.
Tyler, Claude. A 1 (n1,2) .....Oklahoma City
Tyler, James W. G 8 (ns) .....Enid
Unzner, Isabella. A 95 Violin 4 (s,1,2) .....Shawnee

Uri, Hubert Nicholas. A 82 (1,2) .....Okmulgee
Vance, C. C (n2) .....Coalgate
Van Eaton, Charles W. L 40 (1,2) .....Fort Cobb
Van Horn, Chloris Dale. A 17 (1,2) .....Oklahoma City
Van Slyke, Elsie Lucile. A 57 (1,2) .....Tonkawa
Van Slyke, Frank Eugene. A 114 (s) .....Porum
Varner, Orpheus Finley. L u (n1,2) .....Poteau
Varnum, Osie. A 69 (n1,2) .....Norman
Vernor, William Miller. E 124 (1,2) .....Ardmore
Vest, Clio. F 27 (n2) .....Pond Creek
Victory, Charles C. L 12 (n1,2); A 36 .....Collinsville
Vincent, Duke William. M 3rd (1,2) .....Mutual
Vincent, Frances. F u (n1,2) .....Norman
Virgin, Mary Lorette. A 20 (s) .....Norman
Von Tungeln, Alfred Harmes. A 48 (1,2) .....Lone Wolf
Von Tungeln, Ludolph John. A 17 (n1,2) .....Lone Wolf
Voss, Gertrude. F u (1,2) .....Norman
Wade, Lisby Lucius. M 3rd (1,2) .....Ryan
Wade, Victor. L 39 (1,2) .....Batesville, Ark.
Wagner, Florence. A 112 (1,2) .....Monett, Mo.
Wagner, John Clifford. M 17 (1,2); A 41 .....Perkins
Wagner, Marie Belle. F u (n1,2) .....Perkins
Wails, Minnie Florence. A u (ns) .....Norman
Wails, Theodore. A 8 (ns) .....Norman
Waite, Mrs. Mary E. X (n1) .....Oklahoma City
Waite, Verdi Valentine. A 107 (2) .....Norman
Waite, Winifred. X (n1) .....Oklahoma City
Walcott, Clint. E 38 (1,2) .....Olustee
Walker, Arthur James. C (n2) .....Wirt
Walker, Helena Maude. A 61 Violin 21 (s,1,2) .....Norman
Walker, Joseph D. E 11 (n1,2) .....Oklahoma City
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Walker, Lucian C. (1,2) .....Tulsa
Walker, Robert Scott. A 85 (s,1,2) .....Norman
Walker, William A. P 68 (s) .....Holdenville
Walkow, B. Max. A 1 (n1,2) .....Oklahoma City
Wallace, Archie McMillan. E 17 (1,2) .....Hugo
Wallace, Austin. E 23 (n1,2) .....Oklahoma City
Wallace, Marie Florence. A 56 (1,2) .....Oklahoma City
Wallace, Otto. A 21 (1,2) .....Coalgate
Walter, Otto Wallace. E u (1,2) .....Tonkawa
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Ward, J. Paul. L 42 (1,2) .....Batesville, Ark.
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Warren, Merl. A 5 (1,2) .....Lawton
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Wax, Edgar. G 4 (s) .....Waurika
Weaver, Floyd. A 123 (1) .....Oklahoma City
Webb, Mary. A 46 (1,2) .....Tipton

Webb, Roy Abner. M 4th (1,2) .....Oklahoma City
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Webster, Tine Hayes. A 18 (s,2) .....Norman
Weedn, Henry John. M 4th (1,2) .....Sasakwa
Weinstein, Joseph. A u (n1) .....Toultschin, Russia
Weir, Anna Mabel. F u (1) .....Norman
Weiser, Leslie Smith. A 80 (s) .....Edmond
Welch, Percy Lee. A 34 (s,1,2) .....Norman
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Wells, James Otis. E 17 (n1,2) .....Lone Wolf
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Westbrook, A. A. A u (n2) .....Durant
Westervelt, Lucile. A 55 Piano 30 (1,2) .....Oklahoma City
Westfall, Chester Harold. A 106 (1,2) .....Chickasha
Wetzel, Otto Kramer. A 77 (s,1) .....Oklahoma City
Wetzel, Walter Newton. L 32 (1) .....Oklahoma City
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Wheatley, James Albert. E 46 (1,2) .....Yukon
Wheeler, Eugene L. C (n2) .....Pawhuska
Wheeler, R. J. C (n2) .....Wynnewood
Whinery, Esther. F 18 (n1,2) .....Tonkawa
Whinery, Frank William. G 26 (s) .....Mountain View
Whinery, Marie Elizabeth. A 44 (1,2) .....Tonkawa
Whirlow, Florence Evelyn. A 117 (n1,2) .....Kingfisher
Whisenant, J. Barney. A 80 (1,2) .....Duncan
Whistler, Don. E u (n1,2) .....Norman
Whistler, Leo. F u (n1,2) .....Norman
White, Ben Samuel. A 11 (1) .....Wynnewood
White, George M. E u (n1,2) .....Tishomingo
White, Gordon Wells. A 63 (1,2); E 51 (1,2) .....Altus
White, Henry George. A 110 (1,2); L 6 (1,2) .....Chickasha
White, Hugh Allen. L u (1) .....Dustin
White, Ira Elmo. A 25 (1,2) .....Altus
White, Jeannette. A u (ns) .....Oklahoma City
White, Lillian Ethel. A 116 (s) .....Hartshorne
White, Luther Ansel. A 13 (n1,2) .....Waurika
White, Oscar. A 12 (n1,2) .....Shawnee
White, N. Stuart. A 50 (1,2) .....Clinton
White, Thomas Wesley. A 17 (n1,2) .....Wynnewood
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Whitwell, Earle V. A 105 (1,2) .....Norman
Whitwell, Elvis Bland. A 46 (1,2) .....Norman
Whitwell, Ruby. A 17 (n1,2) .....Norman
Wickham, Fletcher R. G 4 (ns) .....Norman

Wickham, Havergal. G 4 (ns) .....Norman
Wickizer, Lucile Grace. F u (1,2) .....Norman
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Wilking, Earl Zollars. X (n1) .....Lexington, Ky.
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Willhite, John. A 17 (s) .....Elgin
Wilhite, Lee Roy. M 4th (1,2) .....Helena
Williams, Albert Morris. A 17 (n1,2) .....Pauls Valley
Williams, Christine Marshall. F 13 Piano 8 (n1,2) .....Norman
Williams, Frances E. A u (ns) .....Norman
Williams, G. J. C (1) .....Edmond
Williams, Guy Yandall. P (2) .....Norman
Williams, Herbert. A u (2) .....Oklahoma City
Williams, Hester. A 25 (ns,1,2) .....Norman
Williams, Ida Salin. F u (n1) .....Norman
Williams, Joyce Rowena, A u (n1) .....Oklahoma City
Williams, Leitus. A 75 (1,2) .....Norman
Williams, Leonard Charles. P 19 (n1,2) .....Oklahoma City
Williams, Mack. P 31 (1,2) .....Norman
Williams, Margaret Lucile. F u (n1,2) .....Norman
Williams, Mildred L. F u (n1) .....Norman
Williams, Ruth. A 51 (1,2) .....McAlester
Williams, Susan Elizabeth. F u (n2) .....Purcell
Williams, William Carlton. L (n1) .....Cleveland
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Willingham, George Hubert. L u (n1,2) .....Hobart
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Wilson, Edward Bennett. A 69 (1,2) .....Calumet
Wilson, Howard Francis. L 11 (n1,2) .....Medford
Wilson, Kenneth J. M 4th (1,2) .....Oklahoma City
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Wilson, Lewis Otis. G 8 (s) .....Norman
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Wilson, May Ella. A 85 (1,2) .....Calumet
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Witcher, Elizabeth. A 74 (s) .....Olney, Ill.

Witcraft, Mildred. A 7 (n1,2) ..... Fairfax
Wolf, Agnes. F u (n1) ..... Norman
Wolfe, Arthur Roscoe. G (s) ..... Norman
Wolfe, Charles C. A u (ns) ..... Helena
Wolfe, Charles Leo. E 99 (1,2) ..... Newkirk
Wolfinger, Roy Jonas. G 31 (1) ..... Enid
Woll, James Calaway. M 3rd (1,2) ..... Sallisaw
Wood, Okla. F u (1) ..... Blackwell
Wood, Verda. F u (n1) ..... Blackwell
Wood, Virgil Oliver. A 136 (1,2) ..... Blackwell
Woodard, Mildred. A u (ns) ..... Snyder
Woods, Clifford Taylor. A 78 (n1,2); E 67 (n1,2) ..... Welch
Woods, Harold Merle. A 76 (n1,2) ..... Welch
Woods, Katie E. A 8 (n1) ..... Verden
Woods, Roy Ulysses. L 24 (1,2) ..... Verden
Woods, Sam Hubert. A 64 (1,2) ..... Altus
Woodworth, Elizabeth. A 52 (1,2) ..... Cashion
Woodworth, Verna. A u (ns) ..... Bromide
Woolsey, B. Fred. M 20 (1,2) ..... Hennessey
Woolsey, Everest Verne. A 112 (2) ..... Hennessey
Work, Isabel. A 81 (n1,2) ..... Durant
Wright, Hugh Dell. L 64 (1,2) ..... Comanche
Wright, James Milton. A 17 (n1) ..... Council Hill
Wright, Jane. A u (ns) ..... Comanche
Wright, Lavina McFarland. F u (n1,2) ..... Muskogee
Wyand, Russel. A 82 Voice 2 (1,2) ..... Woodward
Wyness, Mary Isabel. A 17 (n1,2) ..... Oklahoma City
Yates, Fred Lee. L 34 (1,2) ..... Eldorado
Yates, Osco. P 1 (1) ..... Konawa
Yeager, Mrs. Anna M. C (n1,2) ..... Duncan
Yeakley, Charles C. E 16 (n1,2) ..... Clinton
Yewell, Malcolm B. G 8 (ns) ..... Enid
Young, D. M. L 7 (2) ..... Fort Madison, Iowa
Young, Pearl. A 48 (s,1,2) ..... Norman
Zink, John Steele. A 80 (1,2) ..... Norman

COUNTIES AND STATES REPRESENTED IN THE UNIVERSITY DURING 1915-16

Adair	0
Alfalfa	24
Atoka	8
Beaver	6
Beckham	8
Blaine	11
Bryan	19
Caddo	21
Canadian	24
Carter	17
Cherokee	7
Choctaw	9
Cleveland	498
Cimarron	0
Coal	9
Comanche	37
Cotton	17
Craig	15
Creek	26
Custer	40
Dewey	3
Delaware	1
Ellis	6
Garfield	29
Garvin	25
Grady	47
Grant	18
Greer	18
Harmon	15
Harper	2
Haskell	5
Hughes	17
Jackson	39
Jefferson	19
Johnston	7
Kay	41
Kingfisher	21
Kiowa	36
Latimer	4
LeFlore	11
Lincoln	27
Logan	16
Love	2
Major	4
Marshall	7
Mayes	10
McClain	27
McCurtain	4
McIntosh	6
Murray	6
Muskogee	25
Noble	16
Nowata	7
Okfuskee	16
Oklahoma	257
Okmulgee	9
Osage	17
Ottawa	3
Pawnee	4
Payne	10
Pittsburg	13
Pontotoc	11
Pottawatomie	50
Pushmataha	3
Roger Mills	2
Rogers	10
Seminole	4
Sequoyah	5
Stephens	27
Texas	5
Tillman	15
Tulsa	37
Wagoner	4
Washington	17
Washita	13
Woods	10
Woodward	6

States	
Alabama	4
Arkansas	8
California	1
Colorado	1
Florida	1
Illinois	3
Iowa	2
Kansas	10
Kentucky	5
Louisiana	1
Minnesota	1
Mississippi	3
Missouri	18
Nebraska	1
New Jersey	2
New Mexico	1
New York	3
N. Carolina	2
Ohio	3
Oregon	1
Tennessee	1
Texas	28
Washington	1

Foreign Countries	
India	1
Mexico	1
Russia	2

SUMMARY OF STUDENTS BY SCHOOLS AND CLASSES, 1915-1916

	Men	Women	Total, Duplicates excluded
THE GRADUATE SCHOOL (Excl. of Summer Sess.)	26	14	
Summer Session	32	16	68
THE COLLEGE OF ARTS AND SCIENCES			
Seniors	84	47	
Juniors	90	76	
Sophomores	127	100	
Freshmen	205	138	
Unclassified	105	138	
Extension Classes	30	37	
Summer Session	156	240	1177
THE SCHOOL OF FINE ARTS			
Graduate Students	0	3	
Seniors	1	13	
Juniors	0	11	
Sophomores	1	11	
Freshmen	4	36	
Unclassified	23	131	
Summer	10	42	234
THE SCHOOL OF LAW			
Third Year	22	1	
Second Year	33	0	
First Year	66	2	
Unclassified	23	1	148
THE COLLEGE OF ENGINEERING			
Seniors	12	0	
Juniors	11	0	
Sophomores	29	0	
Freshmen	87	9	
Unclassified	18	0	156
THE SCHOOL OF MEDICINE			
Seniors	20	0	
Juniors	26	0	
Sophomores	16	0	
Freshmen	18	1	
Unclassified	5	0	
Training School for Nurses	0	33	
Training School for Nurses (Summer)	0	8	113
THE SCHOOL OF PHARMACY			
Four-Year Course	5	0	
Second Year, Two-Year Course	12	0	
First Year, Two-Year Course	44	0	
Unclassified	15	0	76
CORRESPONDENCE	89	29	118

GENERAL SUMMARY

Grand total	2090
Summer Session (1915)	554
Total excluding non-resident students	1778
Total in residence exclusive of Summer Session	1486
Grand total excluding duplicates	1970

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The University Bulletin has been established by the university. The reasons that have led to such a step are: first, to provide a means to set before the people of Oklahoma, from time to time, information about the work of the different departments of the university; and, second, to provide a way for the publishing of departmental reports, papers, theses, and such other matter as the university believes, would be helpful to the cause of education in our state. The Bulletin will be sent post free to all who apply for it. The university desires especially to exchange with other schools and colleges for similar publications.

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January—Summer Session
February—Interscholastic Meet
March—General Catalogue
May—Class Schedule
September—Affiliated Schools
October—Alumni Directory
November—Biennial Report (Alternate years)
December—Class Schedule

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